BEFORE

THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

DOCKET NO. 2006-107-W/S

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IN RE:)	hi .
Application of United Utility Companies, Inc. for adjustment of rates and charges and modifications to certain terms and conditions for the provision of water and sewer service.)))))	REBUTTAL TESTIMONY OF CONVERSE CHELLIS

Q. ARE YOU THE SAME CONVERSE CHELLIS THAT HAS PREFILED DIRECT

TESTIMONY IN THIS CASE?

3 A. Yes, I am.

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O. WHY ARE YOU OFFERING REBUTTAL TESTIMONY IN THIS CASE?

I have been asked by United Utility Companies, Inc., or UUC, to give my opinion
with respect to the merits of certain assertions at a night hearing in this case which bear
on the Company's cost structure and the means by which it captures these costs on its
books.

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Q.

PLEASE DESCRIBE THESE ASSERTIONS?

A. It is my understanding that Mr. Alvin Simpson has testified to the Commission that UUC should be able to provide accounting data, including expenses and capital costs, for each utility facility the Company operates. I understand he also testified that it is more expensive to operate a larger plant that a smaller plant.

Q. STARTING WITH THE FIRST ASSERTION, DO YOU BELIEVE UUC SHOULD

BE EXPECTED TO ACCOUNT SEPARATELY FOR EACH INDIVIDUAL

FACILITY?

A. No, I do not. Although it sounds like a simple matter, accounting for utility facilities by each subdivision or system and recording revenues realized and the operating and capital expenses incurred by each one is neither required nor appropriate for a company such as UUC.

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WHY DO YOU SAY IT IS NOT REQUIRED?

It is my understanding that UUC has been in business since 1985 and has never been required by the Commission to account for its revenues, expenses, or capital costs on a subdivision or system basis. To the contrary, the Supreme Court upheld the Commission's determination in the August Kohn case that the appropriate means by which rates are to be set is the entirety of a utility's property without regard to particular groups of customers or individual subdivisions.¹

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Q. WHY DO YOU SAY IT IS NOT APPROPRIATE?

There are two primary reasons why I believe it is not appropriate. First, UUC is in a situation distinct from many privately owned utilities in South Carolina in that it operates several systems in many counties throughout the state. Second, it is a subsidiary of a larger corporation and has certain affiliate transactions with other subsidiaries. From an accounting standpoint, this means that it would be difficult, time consuming and

¹ August Kohn & Co. v. Public Service Com., 281 S.C. 28 (1984).

expensive to separate out costs on a per subdivision or per facility basis. Because larger water and wastewater utilities like UUC are able to pool their resources, it is more economical and efficient to operate these systems collectively than as several individual entities. For instance, such utilities are able to negotiate better prices by purchasing in bulk for several systems rather than for each individual system. Likewise, it would not be prudent for larger utilities to be required to separate out the costs incurred by each system. UUC would incur unnecessary expenses to calculate and attribute costs and portions of costs to each system. Such expenses would not provide much insight into the financial workings of the Company and would not be productive. Actually, requiring such methods would be counterproductive to the benefits of having a company of this size operating several plants. The savings that are realized from pooling resources and collectively purchasing materials and chemicals would be offset by the paperwork and manpower needed to segregate the costs. I would add that, if UUC were to be regulated on a system or subdivision basis as Mr. Simpson suggests, the putative savings he implies would exist are very likely to be short-term, if not illusory. This is because the responsibility for increases in operating capital expenditures would be borne solely by customers residing in a given subdivision or served by a given system. Thus, for example, the Company's customers in Chambert Forest would have to bear all of the costs associated with the plant upgrade described in ORS's testimony in this case. The abandonment of a uniform rate structure would therefore not be in the interest of customers in my opinion.

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Q. DO YOU BELIEVE IT IS MORE EXPENSIVE TO RUN A LARGER PLANT THAN A SMALLER PLANT?

Clearly, on a total cost basis, a larger plant will incur more total costs than a smaller plant will. The larger the plant, the more customers it serves, the more employees it is required to higher, the more chemicals it is required to purchase, etc. However, as a general rule, the larger the company is, the smaller its per customer unit cost will be. This widely accepted principle is known as economies of scale. Essentially, this principle recognizes that a company that achieves economies of scale lowers the average cost per unit through increased production or services rendered since fixed costs are shared over an increased number of goods or services. With respect to water and wastewater utilities, bigger utilities will see greater economies of scale because they will be spreading their fixed costs across a larger customer base which allows a lower per unit For example, this would allow a lower cost per thousand gallons of water cost. consumed, or would result in a reduced sewer charge. If these systems were operated individually, the cost per customer would be much higher because they would not be able to achieve these economies of scale.

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Q. DOES THIS CONCLUDE YOUR TESTIMONY?

19 A. Yes, it does.

BEFORE

THE PUBLIC SERVICE COMMISSION OF

	SOUTH CAROLINA S F
	DOCKET NO. 2006-107-W/S
Inc.	dication of United Utility Companies, for adjustment of rates and charges modifications to certain terms modifications for the provision of many sewer service. The second distribution of the provision of many sewer service. The second distribution of the provision of the prov
Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND OCCUPATION.
A.	My name is B. R. Skelton and my business address is 2962 Walhalla Highway,
	Six Mile, South Carolina 29682. I am Professor Emeritus of Economics at Clemson
	University and am engaged in a variety of private business endeavors, including real
	estate brokerage and residential construction. I also act as a mediator and arbitrator.
	Since 1974, I have mediated 190+ disputes and written decisions in over 1000 arbitration
	cases, mostly union-management grievances. I have also arbitrated deferrals from the
	courts and the NLRB.
Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
	PROFESSIONAL EXPERIENCE.
A.	I received my B.S. degree in Arts & Sciences (History & Economics) from
	Clemson University in 1956. In 1958, I received a Masters of Science degree in
	Agricultural Economics from Clemson University. I received my Ph.D. in Economics
	from Duke University in 1964.

From 1959 to 1987, I was a professor of Economics at Clemson except for 1961-63 when I was in graduate school at Duke University. In addition to teaching standard economic theory, my academic background includes writing, lecturing and research in the areas of labor economics, economic development and arbitration. While at Clemson, I was a member of the Southern Economics Association and American Economic Association. I was also a member of the Arbitration Panel of the Federal Mediation and Conciliation Service and the American Arbitration Association. I retired from Clemson in 1987.

Q.

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PLEASE DESCRIBE YOUR WORK IN THE REAL ESTATE FIELD.

Over time I have developed subdivisions, commercial property, apartments and bought and sold real estate of all types.

Q. DO YOU PROVIDE ANY CONSULTING SERVICES?

I have served as a consultant to various individuals and companies, mostly wrongful death and injury, divorce, product liability and valuation of business losses. I was President of Economic Research and Consulting Associates prior to 1980, the business that provided this analysis. I have testified before the PSC in one case involving a water company in Oconee County.

Q. DO YOU HOLD ANY OTHER PROFESSIONAL DESIGNATIONS?

1	A.	Yes. I am a mediator and arbitrator and am licensed by the State of South
2		Carolina as both a real estate broker and residential contractor. I am also an elected
3		member of the National Academy of Arbitrators and have been a member since 1981.
4		
5	Q.	DR. SKELTON, PLEASE DISCUSS THE BASIS FOR YOUR OPINIONS IN THIS
6		CASE.
7	A.	I am qualified to offer my opinions in this case based on my studies, research,
8		teaching, writing and consulting in the field of economics and on my experience as a real
9		estate investor and broker and as a business person.
10		My opinions are based on my analyses of the relevant materials I have reviewed
11		to date and my fifty years of teaching, writing, researching, consulting, and lecturing in
12		the field of economics. I may supplement, refine, or revise my analyses as appropriate
13		based on additional testimony, documents, or other materials that may become available
14		in this case.
15		
16	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
17	A.	The purpose of my rebuttal testimony is to express my opinion on the Return on
18		Equity range proposed by ORS in this matter through the testimony of Dr. Randy
19		Woolridge.
20		
21	Q.	IN YOUR OPINION, IS THE RANGE OF RETURNS RECOMMENDED BY DR.
22		WOOLRIDGE SUFFICIENT TO MAINTAIN UUC'S FINANCIAL VIABILITY?

No, it is not. Dr. Woolridge recommends a return on common equity ("ROE") range of 9.00-9.40% and an overall return on rate base within the range of 7.48-7.64%. Such a return would weaken UUC's financial position considerably as is demonstrated by the comparison with the return on common equity authorized by the Commission just over two years ago. Additionally, this return is insufficient in comparison to the ROE recently stipulated to by the North Carolina Public Staff for an affiliated company of UUC.

Q.

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A.

WHY IS A COMPARISON OF UUC'S CURRENT RATE CASE WITH ITS 2000 RATE CASE APPROPRIATE?

It is my understanding that when a utility files an application for a rate case in South Carolina, among the factors the Commission should consider is the comparison of the utility's previous rate case filing. In 1996, the South Carolina Supreme Court issued its opinion in Heater of Seabrook, Inc. v Public Service Commission, 324 S.C. 56, 478 S.E. 2d 826 (1996). The Court stated there that "[i]n determining whether Heater's expenses had increased enough to justify a rate increase, [the] Commission should have compared the current test year, including any known and measurable changes after the test year, with [the] test year from the prior case." I believe a comparison of previously authorized and currently proposed returns on investment is also appropriate.

Q. WHY WOULD THE COMPARISON OF UUC'S CURRENT TEST YEAR WITH THE TEST YEAR FROM ITS PRIOR CASE BE RELEVANT IN THIS SITUATION?

I have reviewed UUC's filing from the last rate case as well as the relevant orders. Based upon UUC's 2000 test year, the Commission found in its Order No. 2004-254 that a fair return on common equity was 10%. Recommending such a reduction in the company's financial health in this matter should give the Commission pause.

Q.

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WHY IS THAT?

If the Commission should adopt the ROE recommended by ORS, it would be sending a message that the Company should be earning less of a return on equity now than what it was allowed to earn just two years ago. Even relatively unsophisticated investors should be aware that the interest rates have been increasing over the past few years. Similarly, the Company's cost of investment has been increasing. Furthermore, the Commission should be able to take notice, and the Company's financial information shows, that the cost of providing water and sewer service has only increased. Considering these factors together should clearly demonstrate that the company should be allowed to earn more of a return now than two years ago. For that reason, it is very difficult to justify decreasing the company's ability to earn a sufficient return on its investment.

A.

Q. YOU MENTIONED A RECENT STIPULATION WITH AN AFFILIATE OF UUC; COULD YOU ELABORATE ON THIS?

I have reviewed the application of Transylvania Utilities, Inc. ("TUI") filed with the North Carolina Utilities Commission ("NCUC") in Docket No. W-1012 Sub 7 for an increase in its rates. TUI is similarly situated to UUC in that it is a smaller utility

providing water and wastewater services. On June 28, 2006, TUI filed with the NCUC a stipulation with the North Carolina Public Staff whereby that agency agreed to a 10.7% ROE and an overall Return on Rate Base of 8.19% for TUI, a copy of which I attach as BRS Rebuttal Exhibit 1. This recent acknowledgment of a fair and reasonable return for an affiliated company similarly situated to UUC is, in my view, further evidence that ORS's proposed return in this case is insufficient.

Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes, it does.

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NORTH CAROLINA PUBLIC STAFF UTILITIES COMMISSION

3008 H & NUL Clerk's Office N.C. Utilities Commission

June 27, 2006

Ms. Renne C. Vance, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4325

Re:

Docket No. W-1012, Sub 7

Transylvania Utilities, Inc.

Dear Ms. Vance:

Enclosed for filing in the above-referenced docket are twelve (12) copies of a Stipulation of Transylvania Utilities, Inc., and the Public Staff. Transylvania Utilities, Inc., has reviewed the document and is in agreement with its provisions.

Sincerely,

Gina C. Holt Staff Attorney

GCH/bll

Enclosure

Executive Director

733-2435

Communications 733-2810

Economic Research 733-2902

Legal 733-6110 Transportation 733-7766

Accounting 733-4279

Consumer Services 733-9277

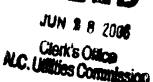
Electric 733-2267 **Natural Gas** 733-4326

Water 733-5610

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STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. W-1012, SUB 7



BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of)	STIPULATION OF
Application by Transylvania Utilities, Inc., 5701)	TRANSYLVANIA
Westpark Drive, Suite 101, Charlotte, North)	UTILITIES, INC. AND
Carolina 28210, for Authority to Increase Rates for)	THE PUBLIC STAFF
Water and Sewer Utility Service in Connestee Falls	í	

Transylvania Utilities, Inc. ("TUI") and the Public Staff - North Carolina Utilities Commission (the "Public Staff"), (jointly the "Parties") submit the following stipulation for the Commission's consideration in the above-captioned docket. The Parties agree that:

- 1. On February 8, 2006, TUI filed an application for a general increase in its water and sewer rates for its service area in the Connestee Falls Subdivision, Transylvania County, North Carolina.
- On March 7, 2006, the Commission declared the above-captioned proceeding to be a general rate case pursuant to N.C. Gen. Stat. § 62-137 and suspended the proposed rates, scheduled hearing and required public notice.
- 3. On April 13, 2006, the Commission issued an order limiting the hearing scheduled for June 27, 2006, to testimony of customer witnesses and scheduling an evidentiary hearing for June 29th, and requiring customer notice.
- By order dated May 24, 2006, the Commission changed the location of the customer hearing from the Transylvania County Courthouse to the Connestee Falls Clubhouse.
- 5. The test year for purposes of establishing rates in this docket is the 12-month period ended June 30, 2005, updated through December 31, 2005.
- 6. TUI requested an increase in its water and sewer rates that would produce the following additional revenues:

Water:

\$375,769

Sewer:

\$293,749

7. TUI's original cost rate base at December 31, 2005 is:

Water:

\$1,913,503

Sewer:

\$ 753,107

- 8. TUI had water plant in service of \$2,800,232 and sewer plant in service of \$1,345,379 at the end of the test year, including pro forma adjustments.
- It is reasonable to allocate the amount of \$18,133, which was the cost of pumps, motors, and plumbing from abandoned wells on TUI's system, among all of Utilities, Inc's., North Carolina systems, such that 4% of this amount is allocated to TUI.
- The accumulated depreciation at the end of the test year, including proforma adjustments, was \$427,476 for water operations and \$393,947 for sewer operations.
- 11. The contributions in aid of construction at the end of the test year was \$389,171 for water operations and \$266,229 for sewer operations, reduced by accumulated amortization of \$78,281 for water operations and \$58,674 for sewer operations.
- 12. The costs which TUI incurred for clearing water and sewer easements and right-of-ways will be amortized over 10 years.
- 13. The costs which TUI incurred for an inflow and infiltration study on the wastewater system will be amortized over five years.
- 14. TUI is entitled to total rate case costs of \$96,541, consisting of \$81,731 of current rate case costs and \$14,810 of unamortized costs from the prior rate case. These costs should be amortized over three years, thereby resulting in an annual rate case expense of \$32,180.
- 15. It is reasonable and appropriate to calculate regulatory fees using the statutory rate of 0.12%.
- 16. It is reasonable and appropriate to calculate gross receipts tax based on the levels of revenues and the statutory rates of 4% for water operations and 6% for sewer operations.
- 17. It is reasonable and appropriate to calculate the state and federal income taxes based on the corporate rates of 6.9% for state income tax and 34% for federal income tax. The domestic production facilities deduction has been included in the calculation of federal income taxes.

18. TUI's total operating revenue deductions under present rates are:

Water:

\$386,462

Sewer:

\$294,937

19. TUI's total operating revenue deductions under the agreed-upon rates are:

Water:

\$437,877

Sewer:

\$324,031

20. TUI's present rates produce the following operating revenues:

Water:

\$467,174

Sewer:

\$253,563

- 21. On June 7, 2006, the Parties entered into a Partial Settlement Agreement establishing the rate of return components to be used in the abovecaptioned docket. The agreed upon overall rate of return on rate base was established at 8.19%.
- 22. The Parties agree that TUI is entitled to charges that will produce the following revenues:

Water:

\$594,528

Sewer:

\$385,685

23. Accordingly, the Parties agree that TUI is entitled to have the following rates established as shown in Appendix A:

Water:

Metered rate, zero usage

5/8" x 3/4"

\$ 21.95

1" meter

\$ 54.88

2" meter

\$175.60

Usage Rate/1000 gallons \$ 5.33

Sewer:

Flat rate

\$ 33.00

Metered rate, zero usage

5/8" x 3/4"

\$ 19.66

1" meter

\$ 49.15

2" meter

\$157.28

Usage Rate/1000 gallons \$ 4.93

- 24. TUI is not seeking fee increases in reconnection charges, new customer charges, meter installation fee, meter testing fee, tampering fee, return check charge or premise visit fee.
- 25. TUI agrees to make journal entries on its books and records to correct the amounts for plant in service, contributions in aid of construction, accumulated depreciation, accumulated amortization, and acquisition adjustment pursuant to the Commission's order in Docket No. W-1012, Sub 5. TUI agrees to, within 60 days of the effective date of the order issued in this case, provide the journal entries to the Public Staff for review before they are recorded on TUI's books. TUI also agrees to file the final journal entries with the Commission within 120 days of the effective date of the order issued in this case.
- 26. TUI agrees to revise its calculation of customer equivalents to include only actual customers in the calculation. TUI agrees to file a new customer equivalent report within three months of the effective date of the order issued in this case.
- 27. The Stipulating Parties agree that all prefiled testimony and exhibits may be introduced into evidence without objection, and the parties hereto waive their right to cross-examine all witnesses with respect to all such prefiled testimony and exhibits.
- 28. The Parties agree that any Recommended Order approving rates and charges agreed to in this stipulation may become the Final Order of the Commission upon issuance and waive the right to file exceptions to the Recommended Order.
- 29. The Parties agree to waive appeal of a Final Order of the Commission incorporating the matters stipulated to herein.
- 30. The Parties acknowledge that this Stipulation resulted from extensive negotiations and compromise. Thus, the agreements reached do not necessarily reflect the respective Parties' beliefs as to the proper treatment or level of the matters cited. Except as needed to carry out the terms of the Commission's Order, which is based on this Stipulation, the Parties have agreed that none of the positions, treatments, figures or other matters reflected in this Stipulation shall have any precedential value, nor shall they otherwise be used in any subsequent proceedings before this Commission or any other regulatory body as proof of the matter in issue.

The foregoing is agreed and stipulated to this the $\frac{28^{12}}{100}$ day of June, 2006.

Transylvania Utility Services, Inc.

By: Edward S. Finley, Jr. J Hunton & Williams LLP One Hannover Square Suite 1400 421 Fayetteville St. Mall Raleigh, NC 27601

Public Staff - North Carolina Utilities Commission,

By:

Gina/C. Holt Staff Attorney

APPENDIX A PAGE 1 OF 2

SCHEDULE OF RATES for

TRANSYLVANIA UTILITIES. INC. for providing <u>water</u> and <u>sewer</u> utility service in

CONNESTEE FALLS SUBDIVISION Transylvania County, North Carolina

Monthly Metered Water Rates:

Base Charge, zero usage (based on meter size)

5/8 x 3/4" meter (typical residential service)	\$ 21.95
1" meter	\$ 54.88
2" meter	\$175.60

Usage Charge, per 1,000 gallons \$ 5.33

MONTHLY SEWER RATES:

Flat Rate: (Sewer only customers) \$ 33.00

Metered: (Based on water used)

Base Charge, zero usage (based on meter size)

5/8 x 3/4" meter	\$ 19.66
1" meter	\$ 49.15
2" meter	\$157.28

Usage Charge, per 1,000 gallons \$ 4.93

MONTHLY AVAILABILITY RATES:

Water \$ 5.00 Sewer \$ 5.00

CONNECTION CHARGES:

Water \$600 per tap Sewer \$400 per tap

RECONNECTION CHARGES:

Water Service -

If water service disconnected by utility for good cause: \$ 27.00 If water service disconnected by utility at customer's request: *\$ 27.00

* Customers who ask to be reconnected within nine months of disconnection will be charged the base charge for each month they were disconnected.

Sewer Service:

If sewer service disconnected by utility for good cause:

Actual Cost
Actual Cost
Actual Cost

The sewer disconnection charge will be waived if the sewer customer is also a water customer. Customers who ask to be reconnected within nine months of disconnection will be charged the base facility charge for the service period they were disconnected. In situations where sewer service is disconnected for sewer only customers the actual cost will be charged. The utility will itemize the estimated cost of disconnecting and reconnecting service and will furnish this exhibit to customers with cut-off notice.

NEW CUSTOMER CHARGE:

Water - \$27.00 Sewer - \$27.00 ***

*** This charge will be waived if sewer customer is also water customer.

METER TESTING FEE: \$20.00 ****

"*** If a customer requests a test of a water meter more frequently than once in a 24-month period, this Company will collect a \$20.00 service charge to defray the cost of the test. If the meter is found to register in excess of the prescribed accuracy limits, the meter test charge will be waived. If the meter is found to register accurately or within such prescribed limits, the charge shall be retained by the Company. Regardless of the test results, customers may request a meter test once in a 24-month period without charge.

BILLS DUE: On billing date.

BILLS PAST DUE: 15 days after billing date.

BILLS FREQUENCY:

Water and Sewer Rates Availability Rates Shall be monthly for service in arrears
Shall be quarterly in advance

CHARGE FOR RETURNED CHECK: \$12.00

FINANCE CHARGE FOR LATE PAYMENT: 1% per month will be applied to the unpaid balance of all bills past due 25 days after billing date.

Issued in Accordance with Authority Granted by the North Carolina Utilities Commission in Docket No. W-1012, Sub 7, on this the _____ day of _______, 2006.

INDEX TO STIPULATION EXHIBIT I

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3.	ORIGINAL COST RATE BASE - WATER AND SEWER COMBINED	2
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6.	ADJUSTMENT TO PLANT IN SERVICE	2-1
7 .	CALCULATION OF PLANT IN SERVICE, ACCUMULATED DEPRECIATION	
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8.	CALCULATION OF ACCUMULATED DEPRECIATION AND DEPRECIATION	
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Docket No. W-1012, Sub 7

RETURN ON ORIGINAL COST RATE BASE

For The Test Year Ended December 31, 2005

Water Operations

Line No.	<u>ltem</u>	Capital- ization <u>Ratio</u> [1] (a)	Original Cost Rate Base (b)	Embedded Cost (c)	Overall Cost Rate [7]	Net Operating Income (e)
1. 2. 3.	Present rates: Debt Equity Total	58.45% 41.55% 100.00%	\$1,118,443 [2] 795,060 [2] \$1,913,503 [3]	6.40% [1] 1.15% [6]	3.74% 0.48% 4.22%	\$71,580 [8] 9,132 [9] \$80,712 [10]
4 . 5. 6.	Company proposed rates: Debt Equity Total	58.45% 41.55% 100.00%	\$1,118,443 [4] 795,060 [4] \$1,913,503 [3]	6.40% [1] 29.33% [6]	3.74% 12.19% 15.93%	\$71,580 [8] 233,196 [11] \$304,776 [12]
7. 8. 9.	Stipulated: Debt Equity Total	58.45% 41.55% 100.00%	\$1,118,443 [5] 795,060 [5] \$1,913,503 [3]	6.40% [1] 10.70% [1] =	3.74% 4.45% 8.19%	\$71,580 [8] 85,071 [8] \$156,651

^[1] Based on stipulation between Public Staff and Company.

^[2] Column (a) x Line 3, Column (b).

^[3] Stipulation Exhibit I, Schedule 2(a), Line 10, Column (c).

^[4] Column (a) x Line 6, Column (b).

^[5] Column (a) x Line 9, Column (b).

^[6] Column (e) divided by Column (b).

^[7] Column (a) x Column (c).

^[8] Column (b) x Column (c).

^[9] Line 3 - Line 1, Column (e).

^[10] Stipulation Exhibit I, Schedule 3(a), Line 40, Column (c).

^[11] Line 6 - Line 4, Column (e).

^[12] Stipulation Exhibit I, Schedule 3(a), Line 40, Column (e).

Docket No. W-1012, Sub 7

RETURN ON ORIGINAL COST RATE BASE

For The Test Year Ended December 31, 2005

Sewer Operations

Line No.	<u>ltem</u>	Capital- ization <u>Ratio</u> [1] (a)	Original Cost Rate Base (b)	Embedded Cost (c)	Overall Cost Rate [7]	Net Operating Income (e)
	Present rates:		****		0.7484	*************
1.	Debt	58.45%	\$440,191 [2]	6.40% [1]	3.74%	\$28,172 [8]
2. 3.	Equity Total	<u>41.55%</u> 100.00%	312,916 [2]	-22.23% [6]	-9.24% -5.50%	(69,546) [9] (\$41,374) [10]
4.	Company proposed rates: Debt	58.45%	\$753,107 [3] \$440,191 [4]	6.40% [1]	3.74%	\$28,172 [8]
5.	Equity	41.55%	312,916 [4]	40.50% [6]	16.83%	126,717 [11]
6.	Total Stipulated:	100.00%	\$753,107 [3]	•	20.57%	\$154,889 [12]
7.	Debt	58.45%	\$440,191 [5]	6.40% [1]	3.74%	\$28,172 [8]
8.	Equity	41.55%	312,916 [5]	10.70% [1]	4.45%	33,482 [8]
9.	Total	100.00%	\$753,107 [3]	=	8.19%	\$61,654

^[1] Based on stipulation between Public Staff and Company.

^[2] Column (a) x Line 3, Column (b).

^[3] Stipulation Exhibit I, Schedule 2(b), Line 10, Column (c).

^[4] Column (a) x Line 6, Column (b).

^[5] Column (a) x Line 9, Column (b).

^[6] Column (e) divided by Column (b).

^[7] Column (a) x Column (c).

^[8] Column (b) x Column (c).

^[9] Line 3 - Line 1, Column (e).

^[10] Stipulation Exhibit I, Schedule 3(b), Line 40, Column (c).

^[11] Line 6 - Line 4, Column (e).

^[12] Stipulation Exhibit I, Schedule 3(b), Line 40, Column (e).

Docket No. W-1012, Sub 7

ORIGINAL COST RATE BASE

For The Test Year Ended December 31, 2005

Stipulation Exhibit I Schedule 2

Water and Sewer Combined

Line		D		After
No.	ltana	Per	Public Staff	Public Staff
	<u>Item</u>	Application [1]	Adjustments [1]	Adjustments [1]
		(a)	(b)	(c)
1.	Plant in service	\$4,459,980	(\$314,369)	\$4,145,611
2.	Accumulated depreciation	(686,359)	(135,064)	(821,423)
3 .	Cash working capital	74,213	(7.790)	66,423
4.	Average tax accruals	0	(9,653)	(9,653)
5 .	Contributions in aid of construction, net	(494,034)	(24,411)	(518,445)
6.	WSC rate base	17,472	(5,044)	12,428
7.	CWS regional offices	20,696	(150)	20,546
8.	Deferred charges - rate base	0	137,320	137,320
9.	Accumulated deferred income taxes	(257,843)	(108,354)	(366,197)
10. ·	Original cost rate base	\$3,134,125	(\$467,515)	\$2,666,610

^[1] Stipulation Exhibit I, Schedule 2(a) plus Schedule 2(b).

Docket No. W-1012, Sub 7

ORIGINAL COST RATE BASE

For The Test Year Ended December 31, 2005

Stipulation Exhibit I Schedule 2(a)

Water Operations

Line No.	<u>ltem</u>	Per Application (a)	Public Staff Adjustments [1]	After Public Staff Adjustments (c)
1.	Plant in service	\$2,973,903	(\$173,671)	\$2,800,232 [2]
2.	Accumulated depreciation	(359,645)	(67,831)	(427,476) [3]
3.	Cash working capital	41,397	(5,361)	36,036 [4]
4.	Average tax accruals	0	(5,572)	(5,572) [5]
5.	Contributions in aid of construction, net	(295,026)	(15,864)	(310,890) [6]
6.	WSC rate base	10,693	(3,062)	7,631 [7]
7.	CWS regional offices	12,666	(51)	12,615 [7]
8.	Deferred charges - rate base	0	48,293	48,293 [7]
9.	Accumulated deferred income taxes	(159,420)	(87,946)	(247,366) [7]
10.	Original cost rate base	\$2,224,568	(\$311,065)	\$1,913,503

^[1] Column (c) - Column (a).

^[2] Stipulation Exhibit I, Schedule 2-1, Line 8, Column (a).

Stipulation Exhibit I, Schedule 2-2, Line 10, Column (a). [3]

^[4] One-eighth of O&M expenses.

^[5] One-sixth of gross receipts tax and payroll taxes, plus one-half of property taxes.

^[6] Stipulation Exhibit I, Schedule 2-3, Line 15, Column (a).

Agreed to by the parties. [7]

Docket No. W-1012, Sub 7

ORIGINAL COST RATE BASE

For The Test Year Ended December 31, 2005

Schedule 2(b)

Stipulation Exhibit I

Sewer Operations

Line		Per	Dublin Canes	After
No.	<u>ltem</u>		Public Staff	Public Staff
	<u>itan</u>	Application	Adjustments [1]	Adjustments
		(a)	(b)	(c)
1.	Plant in service	\$1,486,077	(\$140,698)	\$1,345,379 [2]
2.	Accumulated depreciation	(326,714)	(67,233)	(393,947) [3]
3.	Cash working capital	32,816	(2,429)	30,387 [4]
4.	Average tax accruals	0	(4,081)	(4,081) [5]
5.	Contributions in aid of construction, net	(199,008)	(8,547)	(207,555) [6]
6 .	WSC rate base	6,779	(1,982)	4,797 [7]
7.	CWS regional offices	8,030	(99)	7,931 [7]
8.	Deferred charges - rate base	0	89,027	89,027 [7]
9.	Accumulated deferred income taxes	(98,423)	(20,408)	(118,831) [7]
10.	Original cost rate base	\$909,557	(\$156,450)	\$753,107

^[1] Column (c) - Column (a).

Stipulation Exhibit I, Schedule 2-1, Line 8, Column (b) [2]

Stipulation Exhibit I, Schedule 2-2, Line 10, Column (b). [3]

^[4] One-eighth of O&M expenses.

One-sixth of gross receipts tax and payroll taxes, plus one-half of property taxes. [5]

Stipulation Exhibit I, Schedule 2-3, Line 15, Column (b). [6]

^[7] Agreed to by the parties.

Docket No. W-1012, Sub 7

ADJUSTMENT TO PLANT IN SERVICE

For The Test Year Ended December 31, 2005

Line No.	<u>ltem</u>	Water	Sewer	
		(a)	(p)	(c)
1.	Amount per Company application	\$2,973,903 [1]	\$1,486,077 [1]	\$4,459,980
	Public Staff adjustments:			
2.	Difference in Sub 5 stipulation	(51,638) [2]	5,545 [2]	(46,093)
3.	Remove proforma estimates from application	(527,780) [1]	(319,856) [1]	(847,636)
4.	Include 6 months 6/30-12/31/2005	246,827 [3]	50,439 [3]	297,266
5.	Remove salvaged abandoned well items	(17,408) [4]	0	(17,408)
6.	Include 2006 projects completed net of retirements	210,511 [4]	88,986 [4]	299,497
7.	Adjust allocation of common plant	(34,183) [4]	34,188 [4]	5
8.	Plant in service per Public Staff	\$2,800,232	\$1,345,379	\$4,145,611

^[1] Per Company application.

^[2] Per Stipulation in Docket No. W-1012, Sub 5.

^[3] Per Company records.

^[4] Agreed to by the parties.

^[5] Column (a) plus Column (b).

Docket No. W-1012, Sub 7

CALCULATION OF PLANT IN SERVICE, ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE

For The Test Year Ended December 31, 2005

1:--

Line					
No.	<u>ltem</u>	Water	Sewer	Common	Total [11]
		(a)	(b)	(c)	(d)
	Plant in service				
1.	Plant acquired	\$368,529 [1]	\$638,454 [5]	\$47,218 [8]	\$1,054,201
2.	Additions as of 12/31/03	1,406,993 [2]	346,045 [6]	189,609 [9]	1,942,647
3.	Additions since 12/31/03	848,424 [3]	250,056 [7]	50,283 [10]	1,148,763
4.	Allocation of common plant	176,286 [4]	110,824 [4]	(287,110) [4]	0
5.	Total plant in service	\$2,800,232	\$1,345,379	· / -/ • • • • • • • • • • • • • • • • •	\$4,145,611
	Accumulated depreciation				
6.	Plant acquired	259,183 [1]	466,074 [5]	43,369 [8]	768,626
7.	Additions as of 12/31/03	153,008 [2]	58,536 [6]	171,454 [9]	382,998
8.	Additions since 12/31/03	(108,257) [3]	(208,329) [7]	(13,615) [10]	(330,201)
- 9.	Allocation of common plant	123,542 [4]	77,666 [4]	(201,208) [4]	0
10.	Total accumulated depreciation	\$427,476	\$393,947	=	\$821,423
	Depreciation expense				
11.	Plant acquired	8,202 [1]	15,797 [5]	0 [8]	23,999
12.	Additions as of 12/31/03	28,894 [2]	6,519 [6]	8,907 [9]	44,320
13.	Additions since 12/31/03	21,161 [3]	5,244 [7]	8,223 [10]	34,628
14.	Allocation of common plant	10,518 [4]	6,612 [4]	(17,130) [4]	0
15.	WSC and CWS office depreciation expense	2,177 [12]	1,369 [12]		3,546
16.	Total depreciation expense	\$70,952	\$35,541	-	\$106,493

- [1] Stipulation Exhibit I, Schedule 2-2(a), Line 6.
- [2] Stipulation Exhibit I, Schedule 2-2(b), Line 79.
- [3] Stipulation Exhibit I, Schedule 2-2(b), Line 188.
- [4] Common plant in Column (c) allocated 61.4% to water and 38.6% to sewer based on customer ratio.
- [5] Stipulation Exhibit I, Schedule 2-2(a), Line 10.
- [6] Stipulation Exhibit I, Schedule 2-2(b), Line 134.
- [7] Stipulation Exhibit I, Schedule 2-2(b), Line 213.
- [8] Stipulation Exhibit I, Schedule 2-2(a), Line 13.
- [9] Stipulation Exhibit I, Schedule 2-2(b), Line 154.
- [10] Stipulation Exhibit I, Schedule 2-2(b), Line 223.
- [11] Sum of Columns (a) through (c).
- [12] Per Company books and records.

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE ON ASSETS ACQUIRED IN TRANSFER

For The Test Year Ended December 31, 2005

		Year					
Line		Placed in		Acc. Depr.	Useful	Annual	Accumulated
No.	<u>Item</u>	Service_[1]	Cost [1]	at 12/31/93 [1]	Life[1]	Depreciation [2]	Depreciation [3]
		(a)	(b)	(c)	(d)	(e)	(f)
	Water operations						
1.	Water plant	1976	\$218,700	\$98,590	50	\$4,374	\$151,078
2.	Well pumps	1984	6,543	1,191	10	0	6,543
3.	Transmission/distribution mains	1979	36,651	12,862	100	367	17,266
4.	Meters	1989	99,635	41,189	30	3,321	81,041
5.	Service lines	1990	7,000	1,575	50	140	3,255
6.	Total purchased water plant		368,529	155,407		8,202	259,183
	Sewer operations						
7.	Sewer plant	1976	611,781	273,084	40	15,295	456,624
8.	Pumps/lift stations	1989	22,007	2,373	50	440	7,653
9.	Service lines	1990	4,666	1,053	75	62	1,797
10.	Total purchased sewer plant	-	638,454	276,510		15,797	466,074
	Common plant						
1 1.	Fully depreciated plant		43,369	24,472		0	43,369
12.	Land	1979	3,849	na	na	na	•
13.	Total purchased common plant		47,218	24,472	•	0	na 43,369
14.	Totals	:===	\$1,054,201	\$456,389		\$23,999	\$768,626

^[1] Based on last general rate case, Docket No. W-1012, Sub 5.

^[2] Column (b) divided by Column (d), unless fully depreciated.

^[3] Column (e) multiplied by 12 years in service from December 31, 1993 to December 31, 2005 plus Column (c), unless fully depreciated.

Stipulation Exhibit I Schedule 2-2(b) Page 1 of 8

TRANSYLVANIA UTILITIES, INC.

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE

FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended December 31, 2005

		Plant In							
Line		Service Per		Year Placed			Years in	Annual	Accumulated
No.	<u>ltem</u>	Public Staff		In Service [2]	Life	[1]	Service [4]	Depreciation [5]	Depreciation (6)
	•	(a)	•	(b)	(c)		(d)	(e)	<u>(f)</u>
	Amounts in prior rate case:								
	Water operations								
1.	Fully depreciated plant	\$19,972	[1]						\$19,972
2.	Distribution reservoirs & service lines	2,477	[1]	1992	50		13.5	\$50	675
3.	Transmission and distribution mains	410		1992	100		13.5	. 4	54
4.	Meters	4,495	[1]	1992	30		13.5	150	2,025
5.	Organizational costs	26,461	[1]	1992	40		13.5	662	8,937
6.	Wells & springs, distrib, reserv., & service lines	10,669	[1]	1993	50		12.5	213	2,663
7.	Water treatment structure & hydrants	66 2	[1]	1993	40		12.5	17	213
8.	Transmission and distribution mains	19,273	[1]	1993	100		12.5	193	2,413
9.	Wells and springs	5,808	[1]	1994	50		11.5	116	1,334
10.	Structures and improvements	1,942	[1]	1994	50		11.5	39	449
11.	Water treatment equipment	2,236	[1]	1994	40		11.5	56	644
12.	Distribution reservoirs	20,372	[1]	1994	50		11.5	407	4,681
13.	Transmission/distribution mains	9,302	[1]	1994	100		11.5	93	1,070
14.	Service lines	8,454	[1]	1994	50		11.5	169	1,944
15.	Wells and springs	4,851	[1]	1995	50		10.5	97	1,019
16.	Water treatment equipment	1,124	[1]	1995	40		10.5	28	294
17.	Distribution reservoirs	398	[1]	1995	50		10.5	8	84
18.	Transmission/distribution mains	2,794	[1]	1995	100		10.5	28	294
19.	Service lines	3,831	[1]	1995	50		10,5	77	809
20.	Meters	2,733	[1]	1995	30		10.5	91	956
2 1.	Wells and springs	2,907	[1]	1996	50		9.5	58	551
22.	Electric pump equipment	2,310	[1]	1996	10		9.5	231	2,195
23.	Water treatment equipment	357	[1]	1996	40		9.5	9	86
24.	Transmission/distribution mains	13,245	[1]	1996	100		9.5	132	1,254
25.	Service lines	14,302	[1]	1996	50		9.5	286	2,717
26.	Wells and springs	8,501	[1]	1997	50		8.5	170	1,445
2 7.	Electric pump equipment	1,660	[1]	1997	10		8.5	166	1,411
28.	Water treatment equipment	326	[1]	1997	40		8.5	8	68
29.	Distribution reservoirs	1,872	[1]	1997	50		8.5	37	315
30 .	Transmission/distribution mains	7,590	[1]	1997	100		8.5	76	646

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE

FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended December 31, 2005

Stipulation Exhibit I Schedule 2-2(b) Page 2 of 8

Line		Plant In Service Per		Year Placed		Years in	Annual	Accumulated
No.	<u>Item</u>	Public Staff		In Service [2]	Life[1]	Service [4]	Depreciation [5]	Depreciation [6]
		(a)		(b)	(c)	(d)	(e)	(f)
31.	Service lines	6,242 [[1]	1997	50	8.5	125	1,063
32.	Meters	7,567 [1]	1,997	30	8.5	252	2,142
33 .	Structures and improvements	2,981 [[1]	1998	50	7.5	60	450
34.	Wells and springs	11,314 [1]	1998	50	7.5	226	1,695
35.	Electric pump equipment	4,190 [1]	1998	30	7.5	140	1.050
36.	Water treatment equipment	4,802 [1998	40	7.5	120	900
37.	Distribution reservoirs	722 [1998	50	7.5	14	105
38.	Transmission/distribution mains	18,463 [1998	100	7.5	185	1,388
39 .	Service lines	15,797 [1998	50	7.5	316	2,370
40.	Structures and improvements	12,260		1999	50	6.5	245	1,593
41.	Wells and springs	28,346 [1999	50	6.5	567	3.686
42.	Electric pump equipment	975 [-	1999	10	6.5	98	637
43.	Water treatment equipment	143 [1	•	1999	40	6.5	. 90	26
44.	Distribution reservoirs	611 [1	•	1999	50	6.5	12	78
45.	Transmission/distribution mains	18,327 [1	•	1999	100	6.5	183	1,190
46.	Service lines	15,065 [1		1999	50	6.5	301	1,190
47.	Meters	5,655 [1		1999	30	6.5	189	1,229
48.	Structures and improvements	870 [1		2000	50	5.5	17	
49.	Wells and springs	54,227 [1		2000	50	5.5	1.085	94
50.	Electric pump equipment	682 [1	-	2000	10	5.5	68	5,968
51.	Water treatment equipment	215 [1		2000	40	5.5 5.5	5	374
52.	Transmission/distribution mains	7,158 [1		2000	100	5.5 5.5	5 72	28
53.	Service lines	16,472 [1	•	2000	50	5.5 5.5		396
54.	Meters	383 (1		2000	30	5.5 5.5	329	1,810
55	Structures and improvements	661 [1	-	2001	50	5.5 4 .5	13	72
56.	Wells and springs	192,693 [1	•	2001	50 50	· =	13	59
57.	Water treatment equipment	217 [1	•	2001	40	4.5	3,854	17,343
58.	Distribution reservoirs	737 [1	•	2001	-	4.5	5	23
59.	Transmission/distribution mains	12,583 [1		2001	50 100	4.5	15	68
60.	Service lines	20,050 [1		2001	100	4.5	126	567
61.	Meters	2,378 [1]	•	2001	50	4.5	401	1,805
62.	Electric pump equipment	•	•	2001	30	4.5	79	356
63.	Structures and improvements	34 [1] 2,186 [1]		2001	10	4.5	3	14
	and and mprovements	2,100 [1]	J	2002	50	3.5	44	154

Stipulation Exhibit I Schedule 2-2(b) Page 3 of 8

TRANSYLVANIA UTILITIES, INC.

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended December 31, 2005

No.			Plant In					
(a) (b) (c) (d) (e) (f) 64 Wells and springs 20,822 [1] 2002 50 3.5 416 1,456 65 Electric pump equipment 970 [1] 2002 30 3.5 32 112 66 66 Water treatment equipment 888 [1] 2002 40 3.5 22 77 67 Transmission/distribution mains 9,765 [1] 2002 100 3.5 98 343 68. Service lines 16,081 [1] 2002 50 3.5 32 112 66 8. Service lines 19,091 [1] 2002 50 3.5 32 112 69 68 Service lines 19,091 [1] 2002 50 3.5 32 1,127 69 Meters 19,092 [1] 2003 50 3.5 66 231 70. Structures and improvements 34,303 [1] 2003 50 2.5 686 1,715 71 Wells and springs 574,482 [1] 2003 50 2.5 11,490 28,725 72 Electric pump equipment 19,756 [1] 2003 50 2.5 11,490 28,725 72 Electric pump equipment 19,756 [1] 2003 10 2.5 1,676 4,190 73. Water treatment equipment 1,150 [1] 2003 40 2.5 29 373 74 Transmission/distribution mains 16,185 [1] 2003 10 2.5 16,676 4,190 75. Service lines 37,253 [1] 2003 50 2.5 746 1,863 76 Meters 7,570 [1] 2003 50 2.5 745 1,863 76 Meters 7,570 [1] 2003 50 2.5 745 1,863 76 Meters 7,570 [1] 2003 50 2.5 745 1,863 76 Meters 7,570 [1] 2003 50 2.5 9 23 78 23 78 Organizational cost - Qualla Village 1,908 [1] 2003 40 2.5 9 23 78 0.757 [1] 2003 50 2.5 9 23 78	Line		Service Per	Year Placed		Years in	Annual	Accumulated
64 Wells and springs 20,822 [1] 2002 50 3.5 416 1,456 65 Electric pump equipment 970 [1] 2002 30 3.5 32 112 66 Water treatment equipment 868 [1] 2002 40 3.5 22 77 67 Transmission/distribution mains 9,765 [1] 2002 100 3.5 98 343 68 Service lines 16,081 [1] 2002 50 3.5 322 1,127 79 Meters 1,970 [1] 2002 30 3.5 66 231 70 Structures and improvements 34,303 [1] 2003 50 2.5 686 1,715 71 Wells and springs 574,482 [1] 2003 50 2.5 11,490 28,725 71 Wells and springs 574,482 [1] 2003 10 2.5 1676 4,190 73 Water treatment equipment 1,150 [1] 2003 10	No.	<u>Item</u>	Public Staff	In Service [2]	Life [1]	Service [4]	Depreciation [5]	Depreciation [6]
65 Electric pump equipment 970 11 2002 30 3.5 32 112 66 Water treatment equipment 868 11 2002 40 3.5 22 77 67 Trensmission/distribution mains 9,765 11 2002 100 3.5 98 343 68 Service lines 16,081 11 2002 50 3.5 322 1,127 69 Meters 1,970 11 2002 30 3.5 66 231 70 Structures and improvements 34,303 11 2003 50 2.5 1686 1,715 71 Wells and springs 574,482 11 2003 50 2.5 11,490 28,725 72 Electric pump equipment 16,756 11 2003 30 2.5 16,767 4,190 73 Water treatment equipment 1,150 11 2003 40 2.5 29 73 74 Transmission/distribution mains 16,185 11 2003 40 2.5 29 73 75 Service lines 37,253 11 2003 50 2.5 745 1,863 76 Meters 7,670 17 2003 30 2.5 256 640 77 Distribution reservoirs 470 11 2003 50 2.5 59 2.3 78 Organizational cost - Qualla Village 1,908 11 2003 40 2.5 28 48 120 79 Total prior water plant 1,922 11 1992 40 13,5 48 648 81 Service lines 1,572 11 1992 75 13,5 21 284 82 Lift station 286 11 1992 50 13,5 43 5,832 84 Sewage treatment plant 1,501 11 1992 40 13,5 43 5,832 85 Service lines 3,806 11 1993 40 12,5 390 4,875 85 Service lines 3,806 11 1993 40 12,5 390 4,875 85 Service lines 3,806 11 1993 40 12,5 390 4,875 85 Service lines 3,806 11 1994 50 11,5 891 10,247 89 Sewage treatment plant 35,653 11 1994 40 11,5 891 10,247 89 Sewage treatment plant 35,653 11 1994 40 11,5 891 10,247 89 Sewage treatment plant 35,653 11 1994 40 11,5 891 10,247 89 Sewage treatment plant 35,653 11 1994 40 11,5 891 10,247 89 Sewage treatment plant 35,653 11 1994 40 11,5 891 10,247 89 Sewage treatment plant			(a)	(b)	(c)	(d)	(e)	(f)
66. Water treatment equipment 888 [1] 2002 40 3.5 22 77 67. Transmission/distribution mains 9,765 [1] 2002 100 3.5 98 343 68. Service lines 16,081 [1] 2002 50 3.5 322 1,127 69. Meters 1,970 [1] 2002 30 3.5 66 231 70. Structures and improvements 34,303 [1] 2003 50 2.5 686 1,715 71. Wells and springs 574,482 [1] 2003 10 2.5 16,766 4,190 72. Electric pump equipment 16,756 [1] 2003 10 2.5 1,676 4,190 73. Water treatment equipment 1,160 [1] 2003 40 2.5 1,29 73 74. Transmission/distribution mains 16,185 [1] 2003 100 2.5 162 405 75. Service lines 37,253 [1] 2003 <t< td=""><td>64.</td><td>Wells and springs</td><td></td><td>2002</td><td>50</td><td>3.5</td><td>416</td><td>1,456</td></t<>	64.	Wells and springs		2002	50	3.5	416	1,456
67. Transmission/distribution mains 9,765 [1] 2002 100 3.5 98 343 68. Service lines 16,081 [1] 2002 50 3.5 322 1,127 69. Meters 1,970 [1] 2002 30 3.5 66 231 70. Structures and improvements 34,303 [1] 2003 50 2.5 686 1,715 71. Wells and springs 574,482 [1] 2003 50 2.5 11,490 28,725 72. Electric pump equipment 16,756 [1] 2003 40 2.5 1,676 4,190 73. Water treatment equipment 1,150 [1] 2003 40 2.5 2.9 73 74. Transmission/distribution mains 16,185 [1] 2003 40 2.5 162 405 75. Service lines 37,283 [1] 2003 50 2.5 745 1,863 76. Meters 7,670 [1] 2003 50	65 .	Electric pump equipment	970 [1]	2002	30	3.5	32	112
68. Service lines 16,081 [1] 2002 50 3.5 322 1,127 69. Meters 1,970 [1] 2002 30 3.5 66 231 70. Structures and improvements 34,303 [1] 2003 50 2.5 686 1,715 71. Wells and springs 574,482 [1] 2003 50 2.5 11,490 28,725 72. Electric pump equipment 16,756 [1] 2003 40 2.5 15,76 4,190 73. Water freatment equipment 1,150 [1] 2003 100 2.5 16,2 405 74. Transmission/distribution mains 16,185 [1] 2003 100 2.5 162 405 75. Service lines 3,7233 [1] 2003 50 2.5 745 1,863 76. Meters 7,670 [1] 2003 30 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 50 <t< td=""><td>66.</td><td>Water treatment equipment</td><td>868 [1]</td><td>2002</td><td>40</td><td>3.5</td><td>22</td><td>77</td></t<>	66.	Water treatment equipment	868 [1]	2002	40	3.5	22	77
69. Meters 1,970 [1] 2002 30 3.5 66 231 70. Structures and improvements 34,303 [1] 2003 50 2.5 686 1,715 71. Wells and springs 574,482 [1] 2003 50 2.5 11,490 28,725 72. Electric pump equipment 16,756 [1] 2003 10 2.5 1,676 4,190 73. Water treatment equipment 1,510 [1] 2003 10 2.5 29 73 74. Transmission/distribution mains 16,185 [1] 2003 50 2.5 162 405 75. Service lines 37,253 [1] 2003 50 2.5 745 1,863 76. Meters 7,670 [1] 2003 50 2.5 745 1,863 77. Distribution reservoirs 470 [1] 2003 50 2.5 745 1,863 78. Organizational cost - Qualla Village 1,988 [1] 2003 40 2.5 48 120 79. Total prior water plant 1,922 [1]	67.	Transmission/distribution mains		2002	100	3.5	98	343
70. Structures and improvements 34,303 [1] 2003 50 2.5 686 1,715 71. Wells and springs 574,482 [1] 2003 50 2.5 11,490 28,725 72. Electric pump equipment 16,756 [1] 2003 10 2.5 1676 4,190 73. Water treatment equipment 1,150 [1] 2003 40 2.5 29 73 74. Transmission/distribution mains 16,185 [1] 2003 100 2.5 162 405 75. Service lines 37,253 [1] 2003 50 2.5 745 1,863 76. Meters 7,670 [1] 2003 30 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 30 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 40 2.5 48 120 79. Total prior water plant 1,406,993 20 1.5	68.	Service lines	16,081 [1]	2002	50	3.5	322	1,127
71. Wells and springs 574,482 [1] 2003 50 2.5 11,490 28,725 72. Electric pump equipment 16,756 [1] 2003 10 2.5 1.676 4,190 73. Water treatment equipment 1,150 [1] 2003 40 2.5 29 73 74. Transmission/distribution mains 16,185 [1] 2003 100 2.5 162 405 75. Service lines 37,253 [1] 2003 50 2.5 75 1,863 76. Melers 7,670 [1] 2003 50 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 50 2.5 29 23 78. Organizational cost - Qualla Village 1,908 [1] 2003 40 2.5 48 120 79. Total prior water plant 1,922 [1] 1992 40 13.5 48 648 81. Severge perations 80. Sewage treatment plant	69.	Meters	1,970 [1]	2002	30	3.5	66	231
72. Electric pump equipment 16,756 [1] 2003 10 2.5 1,676 4,190 73. Water treatment equipment 1,150 [1] 2003 40 2.5 29 73 74. Transmission/distribution mains 16,185 [1] 2003 100 2.5 162 405 75. Service lines 37,253 [1] 2003 50 2.5 745 1,863 76. Meters 7,670 [1] 2003 30 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 50 2.5 9 23 78. Organizational cost - Qualla Village 1,908 [1] 2003 40 2.5 48 120 79. Total prior water plant 1,406,993 20 3 40 2.5 48 648 81. Sevage treatment plant 1,922 [1] 1992 40 13.5 48 648 81. Sevage treatment plant 1,572 [1] 1992<	70.	Structures and improvements		2003	50	2.5	686	1,715
73. Water treatment equipment 1,150 [1] 2003 40 2.5 29 73 74. Transmission/distribution mains 16,185 [1] 2003 100 2.5 162 405 75. Service lines 37,253 [1] 2003 50 2.5 745 1,863 76. Meters 7,670 [1] 2003 30 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 50 2.5 9 23 78. Organizational cost - Qualla Village 1,908 [1] 2003 40 2.5 48 120 79. Total prior water plant 1,406,993	71.	Wells and springs	574,482 [1]	2003	50	2.5	11,490	28,725
74. Transmission/distribution mains 16,185 [1] 2003 100 2,5 162 405 75. Service lines 37,283 [1] 2003 50 2,5 745 1,863 76. Meters 7,670 [1] 2003 30 2,5 256 640 77. Distribution reservoirs 470 [1] 2003 50 2,5 9 23 78. Organizational cost - Qualla Village 1,908 [1] 2003 40 2,5 48 120 79. Total prior water plant 1,908 [1] 2003 40 2,5 48 120 Sewer operations 80. Sewage treatment plant 1,922 [1] 1992 40 13.5 48 648 81. Service lines 1,572 [1] 1992 75 13.5 21 284 82. Lift station 286 [1] 1992 75 13.5 6 81 83. Organizational costs 17,265 [1]	72.	Electric pump equipment	16,756 [1]	2003	10	2.5	1,676	4,190
75. Service lines 37,253 [1] 2003 50 2.5 745 1,863 76. Meters 7,670 [1] 2003 30 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 50 2.5 9 23 78. Organizational cost - Qualla Village 1,908 [1] 2003 40 2.5 48 120 79. Total prior water plant 1,406,993 1 2003 40 2.5 48 120 80. Sewer operations Sewer operations 81. Service lines 1,572 [1] 1992 40 13.5 48 648 81. Service lines 1,572 [1] 1992 75 13.5 21 284 82. Lift station 286 [1] 1992 40 13.5 43 583 83. Organizational costs 17,285 [1] 1992 40 13.5 432 5,832 84.	73.	Water treatment equipment	1,150 [1]	2003	40	2.5	29	73
76. Meters 7,670 [1] 2003 30 2.5 256 640 77. Distribution reservoirs 470 [1] 2003 50 2.5 9 23 78. Organizational cost - Qualla Village 1,908 [1] 2003 40 2.5 48 120 79. Total prior water plant 1,406,993	74.	Transmission/distribution mains	16,185 [1]	2003	100	2.5	162	405
77. Distribution reservoirs 470 [1] 2003 50 2.5 9 23 78. Organizational cost - Qualia Village 1,908 [1] 2003 40 2.5 48 120 Sewer operations Sewer operations 80. Sewage treatment plant 1,922 [1] 1992 40 13.5 48 648 81. Service lines 1,572 [1] 1992 75 13.5 21 284 82. Lift station 286 [1] 1992 50 13.5 48 648 83. Organizational costs 17,285 [1] 1992 40 13.5 42 284 83. Organizational costs 17,285 [1] 1992 40 13.5 43 432 5,832 84. Sewage treatment plant 15,612 [1] 1993 40 12.5 390 4,875 85. Service lines 3,606 [1] 1993 75 12.5 48 600	75 .	Service lines	37,253 [1]	2003	50	2.5	745	1,863
78. Organizational cost - Qualla Village 1,908 [1] 2003 40 2.5 48 120 28,894 153,008 Sewer operations Sewer operations 80. Sewage treatment plant 1,922 [1] 1992 40 13.5 48 648 648 81. Service lines 1,572 [1] 1992 75 13.5 21 284 284 82. Lift station 286 [1] 1992 50 13.5 6 81 83. Organizational costs 17,285 [1] 1992 40 13.5 432 5,832 84. Sewage treatment plant 15,612 [1] 1993 40 12.5 390 4,875 85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 48 600 87. Buildings & structures 144 [1] 1994 50 11.5 891 10,247 89. Sewage treatment plant 35,653 [1] 1994 40 11.5	76.	Meters	7,670 [1]	2003	30	2.5	256	640
Total prior water plant 1,406,993 28,894 153,008	77.	Distribution reservoirs	470 [1]	2003	50	2.5	9	23
Sewer operations	78.	Organizational cost - Qualla Village	1,908 [1]	2003	40	2.5	48	120
80. Sewage treatment plant 1,922 [1] 1992 40 13.5 48 648 81. Service lines 1,572 [1] 1992 75 13.5 21 284 82. Lift station 286 [1] 1992 50 13.5 6 81 83. Organizational costs 17,285 [1] 1992 40 13.5 432 5,832 84. Sewage treatment plant 15,612 [1] 1993 40 12.5 390 4,875 85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 1 1 13 87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 50 11.5 99 104 91. Sewer mains 4,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	79.	Total prior water plant	1,406,993				28,894	153,008
81. Service lines 1,572 [1] 1992 75 13.5 21 284 82. Lift station 286 [1] 1992 50 13.5 6 81 83. Organizational costs 17,285 [1] 1992 40 13.5 432 5,832 84. Sewage treatment plant 15,612 [1] 1993 40 12.5 390 4,875 85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 1 13 87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 <t< td=""><td></td><td>Sewer operations</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Sewer operations						
82. Lift station 286 [1] 1992 50 13.5 6 81 83. Organizational costs 17,285 [1] 1992 40 13.5 432 5,832 84. Sewage treatment plant 15.612 [1] 1993 40 12.5 390 4,875 85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 1 13 87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 <t< td=""><td>80.</td><td>Sewage treatment plant</td><td>1,922 [1]</td><td>1992</td><td>40</td><td>13.5</td><td>48</td><td>648</td></t<>	80.	Sewage treatment plant	1,922 [1]	1992	40	13.5	48	648
83. Organizational costs 17,285 [1] 1992 40 13.5 432 5,832 84. Sewage treatment plant 15,612 [1] 1993 40 12.5 390 4,875 85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 1 133 87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	81.	Service lines	1,572 [1]	1992	75	13.5	21	284
84. Sewage treatment plant 15,612 [1] 1993 40 12.5 390 4,875 85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 1 13 87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	82.	Lift station	286 [1]	1992	50	13.5	6	81
85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 1 13 87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	83.	Organizational costs	17,285 [1]	1992	40	13.5	432	5,832
85. Service lines 3,606 [1] 1993 75 12.5 48 600 86. Force or vacuum mains 117 [1] 1993 100 12.5 1 13 87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	84.	Sewage treatment plant	15,612 [1]	1993	40	12.5	390	4,875
87. Buildings & structures 144 [1] 1994 50 11.5 3 35 88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	85.	Service lines	3,606 [1]	1993	75	12.5	48	600
88. Sewage treatment plant 35,653 [1] 1994 40 11.5 891 10,247 89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	86.	Force or vacuum mains	117 [1]	1993	100	12.5	1	13
89. Sewage service lines 6,317 [1] 1994 75 11.5 84 966 90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	87.	Buildings & structures	144 [1]	1994	50	11.5	3	35
90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	88.	Sewage treatment plant	35,653 [1]	1994	40	11.5	891	10,247
90. Force or vacuum mains 930 [1] 1994 100 11.5 9 104 91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	89.	Sewage service lines		1994	75	11.5	84	
91. Sewer mains 4,152 [1] 1994 100 11.5 42 483 92. Lift stations 49,954 [1] 1994 50 11.5 999 11,489 93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	90.	Force or vacuum mains		1994	100	11.5	9	104
93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	91.	Sewer mains		1994	100	11.5	42	483
93. Sewage treatment plant 4,394 [1] 1995 40 10.5 110 1,155	92.	Lift stations	49,954 [1]	1994	50	11.5	999	11,489
· · · · · · · · · · · · · · · · · · ·	93.	Sewage treatment plant	4,394 [1]	1995	40	10.5	110	
	94.	Sewer service lines	1,772 [1]	1995	75	10.5	24	•

Stipulation Exhibit I Schedule 2-2(b) Page 4 of 8

TRANSYLVANIA UTILITIES, INC.

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended December 31, 2005

Line No.	<u>item</u>	Plant In Service Per Public Staff (a)	Year Placed In Service [2	2] <u>Life</u> [Years in Service [4]	Annual Depreciation [5]	Accumulated Depreciation [6]
95.	Sewer mains	4,263 [1	1995	100	10.5	43	452
96.	Lift stations	4,176 [1	=	50	10.5	84	882
97.	Sewage treatment plant	22,438 [1		40	9.5	561	5,330
98.	Sewage service lines	4,315 [1]		75	9.5	58	551
99.	Sewer mains	5,585 [1]		100	9.5	56	532
100.	Lift stations	4,509 [1]		50	9.5	90	855
101.	Lift stations	19,986 [1]		50	8.5	400	3,400
102.	Sewage service lines	2,199 [1]		75	8.5	29	247
103.	Sewer mains	10,886 [1]		100	8.5	109	927
104.	Sewage treatment plant	643 [1]		40	8.5	16	136
105.	Lift stations	205 [1]		50	7.5	4	30
106.	Sewage service lines	7,141 [1]		75	7.5	95	713
107.	Sewage treatment plant	74 [1]	1998	40	7.5	2	15
108.	Sewer mains	5,408 [1]	1998	100	7.5	54	405
109.	Lift stations	2,496 [1]	1999	50	6.5	50	325
110.	Sewage service lines	7,705 [1]	1999	75	6.5	103	670
111.	Sewage treatment plant	3,349 [1]	1999	40	6.5	84	546
112.	Sewer mains	4,509 [1]	1999	100	6.5	45	293
113.	Manholes	216 [1]	1999	50	6.5	4	26
114.	Lift stations	2,094 [1]	2000	50	5.5	42	231
115.	Sewage service lines	10,141 [1]	2000	75	5.5	135	743
116.	Manholes	260 [1]	2000	50	5.5	5	28
117.	Sewage treatment plant	810 [1]	2000	40	5.5	20	110
118.	Sewer mains	2,295 [1]	2000	100	5.5	23	127
119.	Sewage treatment plant	718 [1]	2001	40	4.5	18	81
120.	Sewage service lines	7,176 [1]	2001	75	4.5	96	432
121.	Sewer mains	666 [1]	2001	100	4.5	7	32
122.	Manholes	380 [1]	2001	50	4.5	8	36
123.	Lift stations	4.538 [1]	2002	50	3.5	91	319
124.	Sewage service lines	11,879 [1]	2002	75	3.5	158	553
125.	Sewer mains	516 [1]	2002	100	3.5	5	18
126.	Sewage treatment plant	5,340 [1]	2002	40	3.5	134	469
127.	Lift stations	3,666 [1]	2003	50	2.5	73	183

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED
DEPRECIATION AND DEPRECIATION EXPENSE
FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended December 31, 2005

Stipulation Exhibit I Schedule 2-2(b) Page 5 of 8

Line No.	<u>Item</u>	Plant In Service Per Public Staff	Year Placed In Service [2]	Life [1]	Years in Service [4]	Annual Depreciation [5]	Accumulated Depreciation [6
		(a)	(b)	(c)	(d)	(e)	(f)
128.	Sewage service lines	19,756 [1]	2003	75	2.5	263	658
129.	Force or vacuum mains	670 [1]	2003	100	2.5	7	18
130.	Sewer mains	6,267 [1]	2003	100	2.5	63	158
131.	Manholes	60 [1]	2003	50	2.5	1	3
132.	Sewage treatment plant	13,087 [1]	2003	40	2.5	327	818
133.	Organizational cost - Qualla Village	1,907 [1]	2003	40	2.5	48_	120
134.	Total prior sewer plant	346,045				6,519	58,536
	Common plant						
135.	Fully depreciated plant	135,798 [1]					135,798
136.	Undistributed plant	226 [1]	1992	15	13.5	15	203
137.	Tools and misc equipment	408 [1]	1992	20	13.5	20	270
138.	Tools and misc equipment	2,341 [1]	1993	20	12.5	117	1,463
139.	Tools and misc equipment	2,639 [1]	1994	20	11.5	132	1,518
140.	Tools and misc equipment	5,344 [1]	1995	20	10.5	267	2,804
141.	Office furniture and equipment	99 [1]	1996	10	9.5	10	95
142.	Tools and misc equipment	2,471 [1]	1996	20	9.5	124	1,178
143.	Tools and misc equipment	538 [1]	1997	20	8.5	27	230
144.	Tools and misc equipment	3,614 [1]	1998	20	7.5	181	1,358
145.	Tools and misc equipment	1,894 [1]	1999	20	6.5	95	618
146.	Tools and misc equipment	1,005 [1]	2000	20	5.5	50	2 75
147.	Tools and misc equipment	60 [1]	2001	20	4.5	3	14
148.	Mini computers	2,130 [1]	2002	5	3.5	426	1,491
149.	Tools and misc equipment	1,236 [1]	2002	20	3.5	62	217
150.	Transportation equipment	21,904 [1]	2002	4	3.5	5,476	19,166
151.	Tools and misc equipment	7,149 [1]	2003	4	2.5	1,787	4,468
152.	Communication equipment	488 [1]	2003	10	2.5	49	123
153.	Transportation equipment	265 [1]	2003	4	2.5	66	165
154.	Total prior common plant	189,609		•		8,907	171,454
155.	Additions from prior case (L79 + L134 + L1	1,942,647				44,320	382,998

Stipulation Exhibit I Schedule 2-2(b) Page 6 of 8

TRANSYLVANIA UTILITIES, INC.

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED DEPRECIATION AND DEPRECIATION EXPENSE FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended Dece	mber :	31.	2005
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Line No.	<u>ltem</u>	Plant In Service Per Public Staff	Year Placed In Service [2]	Life [1]	Years in Service [4]	Annual Depreciation [5]	Accumulated Depreciation [6]
	Additions since last rate case:	(a)	(b)	(c)	(d)	(e)	(f)
	Water operations						
156.	Wells and springs	115,826 [1]	2004	50	1.5	2,317	3,476
157.	Electric pump equipment	34,114 [1]	2004	10	1.5	3,411	5,117
158.	Transmission/distribution mains	236,553 [1]	2004	100	1.5	2,366	3,549
159.	Retirement transmission/distribution mains	(79,761) [1]				0	(79,761)
160.	Service lines	39,411 [1]	2004	50	1.5	788	1,182
161.	Structures and improvements	29,733 [2]	2004	50	1.5	595	893
162.	Water treatment equipment	504 [2]	2004	40	1.5	13	20
163.	Distribution reservoirs	1,682 [2]	2004	50	1.5	34	51
164.	Meters	9,203 [2]	2004	30	1.5	307	461
165.	Meters	8,919 [2]	2005	30	1.0	297	297
166.	Service lines	48,300 [2]	2005	50	1.0	966	966
167.	Transmission/distribution mains	198,922 [2]	2005	100	1.0	1,989	1, 98 9
168.	Retirement transmission/distribution mains	(43,866) [2]		100		(439)	(43,866)
169.	Water treatment equipment	1,895 [2]	2005	40	1.0	47	47
170.	Electric pump equipment	5,503 [2]	2005	10	1.0	550	550
171.	Structures and improvements	2,317 [2]	2005	50	1.0	46	46
172.	Wells and springs	46,266 [2]	2005	50	1.0	925	925
173	Distribution reservoirs	296 [2]	2005	50	1.0	6	6
174.	Power generation	103,147 [2]	2006	20 [3]	1.0	5,157	5.157
175.	Wells and springs	78,849 [2]	2006	50	1.0	1,577	1.577
176	Structures and improvements	750 [2]	2006	50	1.0	15	15
177.	Retirement structures and improvements	(550) [2]		50		(11)	(550)
178.	Electric pump equipment	1,746 [2]	2006	10	1.0	175	175
179.	Retirement electric pump equipment	(1,373) [2]		10	7.10	(137)	(1,373)
180.	Water treatment equipment	1,179 [2]	2006	40	1.0	29	29
181.	Retirement water treatment-equipment	(400) [2]	2000	40		(10)	(400)
182.	Distribution reservoirs	1,649 [2]	2006	50	1.0	33	33
183.	Retirement distribution reservoirs	(350) [2]	2000	50	1.0	(7)	(350)
184	Transmission/distribution mains	10,251 [2]	2006	100	1.0	103	103
185.	Retirement transmission/distribution mains	(6,525) [2]	2000	100	1.0	(65)	(6,525)
186.	Service lines	6,459 [2]	2006	50	1.0	129	129
187.	Retirement service lines	(2,225) [2]	2000	50	• • •	(45)	(2,225)
188	Total additions to water plant	848,424				21,161	(108,257)
. 00.	wastions to mater prom	U-70, -2				21,101	(100,207)

Docket No. W-1012, Sub 7 CALCULATION OF ACCUMULATED

DEPRECIATION AND DEPRECIATION EXPENSE

FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended December 31, 2005

Stipulation Exhibit I Schedule 2-2(b) Page 7 of 8

		Plant In					
		Service Per	Year Placed		Years in	Annual	Accumulated
No.	<u>item</u>	Public Staff	In Service [2]	Life [1]	Service [4]	Depreciation [5]	Depreciation [6]
		(a)	(b)	(c)	(d)	(e)	(f)
	Sewer operations						
189.		22.924.741	2004	40	4.6		•••
190.	Sewage treatment plant	23,824 [1]	2004	40	1.5	596	894
190.	Lift stations	28,410 [1]	2004	50	1.5	568	852
	Retirement-lift station	(10,848) [1]	2001	50		0	(10,848)
192. 193.	Sewage service lines	19,133 [1]	2004	75	1.5	255	383
193.	Sewer mains	5,270 [1]	2004	100	1.5	53	80
194. 195.	Manholes	33,026 [2]	2004	50	1.5	661	992
195.	Lift stations	36,566 [2]	2005	50	1.0	731	731
	Sewer mains	4,442 [2]	2005	100	1.0	44	44
197.	Force or vacuum mains	355 [2]	2005	100	1.0	4	4
198.	Sewage service lines	23,631 [2]	2005	75	1.0	315	315
199.	Sewage treatment plant	8,151 [2]	2005	40	1.0	204	204
200.	Manholes	365 [2]	2005	50	1.0	7	7
201.	Power generation-sewer	28,211 {2]	2006	20 [3]	1.0	1,411	1,411
202.	Retirement-lift station generator	(21,158) [2]		50		(423)	(21,158)
203.	Force or vacuum mains	243,815 [2]	2006	100	1.0	2.438	2,438
204.	Retirement-force or vacuum mains	(182,861) [2]		100		(1,829)	(182,861)
205.	Lift stations	956 [2]	2006	50	1.0	19	19
206.	Retirement lift stations	(250) [2]		50		(5)	(250)
207.	Sewage service lines	1,470 [2]	2006	75	1.0	20	20
208.	Force or vacuum mains	731 [2]	2006	100	1.0	7	7
209	Retirement force or vacuum mains	(375) [2]		100		(4)	(375)
210.	Manholes	1,728 [2]	2006	50	1.0	35	35
211.	Sewage treatment plant	6,910 [2]	2006	40	1.0	173	173
212.	Retirement sewage treatment plant	(1,446) [2]		40		(36)	(1,446)
213.	Total additions to sewer plant	250,056				5,244	(208,329)
	Common plant						
214.		274 (41	2004	•			_
	Mini computers	271 [1]	2004	5	1.5	54	81
215.	Tools and misc equipment	8,984 [1]	2004	20	1.5	449	674
216.	Communication equipment	3,550 [1]	2004	10	1.5	355	533
217.	Transportation equipment	4,757 [2]	2004	4	1.5	1,189	1,784
218.	Tools and misc equipment	2,000 [2]	2005	20	1.0	100	100
219.	Transportation equipment	1,562 [2]	2005	4	1.0	391	391

Docket No. W-1012, Sub 7

CALCULATION OF ACCUMULATED

DEPRECIATION AND DEPRECIATION EXPENSE

FOR ADDITIONS SINCE ACQUISITION

For The Test Year Ended December 31, 2005

Stipulation Exhibit I Schedule 2-2(b) Page 8 of 8

No.	<u>item</u>	Plant In Service Per Public Staff (a)	Year Placed In Service [2]	Life [1]	Years in Service [4]	Annual Depreciation [5]	Accumulated Depreciation [6]
220.	Power generation-common	32,088 [2]	2006	20 [3]	1.0	1.604	1.604
221.	Retirement-power generation-common	(24,066) [2]	*	20 [3]		(1,203)	(24,066)
222.	Transportation equipment	21,137 [2]	2006	4	1.0	5,284	5,284
223.	Total additions to common plant	50,283				8,223	(13,615)
224.	Totals (L155 + L188 + L213 + L223)	\$3,091,410				\$78,948	\$52,797

^[1] Based on last general rate case, Docket No. W-1012, Sub 5, unless otherwise footnoted.

^[2] Per review of Company records.

^[3] Provided by Public Staff Engineer Tweed.

^[4] Based on year placed in service using half year convention.

^[5] Column (a) divided by Column (c), unless fully depreciated.

^[6] Column (d) x Column (e), unless fully depreciated.

Docket No. W-1012, Sub 7

Stipulation Exhibit I Schedule 2-3

CALCULATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION, ACCUMULATED AMORTIZATION, AND AMORTIZATION EXPENSE

For The Test Year Ended December 31, 2005

Line No.	<u>ltem</u>	Water Operations (a)	Sewer Operations (b)	Combined Operations [4]
1.	CIAC as of 12/31/03	(\$341,771) [1]	(\$241,429) [1]	(\$583,200)
2.	Plus: CIAC additions in 2004	(25,200) [2]	(13,600) [2]	(38,800)
3.	CIAC as of 12/31/04	(366,971)	(255,029)	(622,000)
4.	CIAC amortization rate	2.46% [3]	2.54% [3]	
5 .	Annual amortization for 2004 (Line 3 x Line 4)	(9,027)	(6,478)	(15,505)
6.	CIAC as of 12/31/04	(366,971)	(255,029)	(622,000)
7.	Plus: CIAC additions in 2005	(22,200) [2]	(11,200) [2]	(33,400)
8.	CIAC as of 12/31/05	(389,171)	(266,229)	(655,400)
9.	CIAC amortization rate	2.46% [3]	2.54% [3]	
10.	Annual amortization for 2005 (Line 8 x Line 9)	(9,574)	(6,762)	(16,336)
11.	Accumulated amortization at 12/31/03	59,680 [1]	45,434 [1]	105,114
12.	Amortization for 2004 (Line 5)	9,027	6,478	15,505
13.	Amortization for 2005 (Line 10)	9,574	6,762	16,336
14.	Accumulated amortization at 12/31/05	78,281	58,674	136,955
15.	CIAC, net of amortization (Line 8 + Line 14)	(\$310,890)	(\$207,555)	(\$518,445)

^[1] Based on last general rate case, Docket No. W-1012, Sub 5.

^[2] Based on information provided by Company.

^[3] Calculated based on depreciation rates for plant in service.

^[4] Column (a) plus Column (b).

Docket No. W-1012, Sub 7

NET OPERATING INCOME FOR A RETURN

For The Test Year Ended December 31, 2005

Water and Sewer Combined

	Water and Sewer Combined								
			Present Rates		Company Prop	osed Rates	Stipulat		
			Public	Per	Net	Operations		Operations	
Line		Per	Staff	Public	Company	After Rate	Net	After Rate	
No.	<u>ltem</u>	Application [1]	Adjustments [1]	Staff [1]	Increase [1]	increase [1]	Increase [1]	increase [1]	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	
	Operating Revenues:								
1.	Service revenues	\$ 594,778	\$14,918	\$609,696	\$669,51 8	\$1,279,214	\$259,476	\$869,172	
2.	Availability revenues	88,080	(3,360)	84,720	0	84,720	0	84,720	
3.	Miscellaneous revenues	37,355	(1,854)	35,501	0	35,501	0	35,501	
4.	Uncollectible accounts	(32,969)	23,789	(9,180)	0	(9,180)	0	(9,180)	
5.	Total operating revenues	687,244	33,493	720,737	669,518	1,390,255	259,476	980,213	
	Operating & Maintenance Expenses:								
6.	Electric power	78,012	(406)	77,606	0	77,606	0	77,606	
7.	Chemicals	15,355	1,205	16,560	0	16,560	0	16,560	
8.	Salaries and wages	186,024	(17,347)	168,677	0	168,677	0	1 68 , 6 77	
9.	Outside services - direct	3,710	493	4,203	0	4,203	0	4,203	
10.	Employee benefits	40,572	(1,405)	39,167	0	39,167	0	39,167	
11.	Insurance - other	19,665	(1,679)	17,986	0	17,986	٥	17,986	
12.	Rents	3,398	421	3,819	0	3,819	0	3,819	
13.	Office supplies	3.702	392	4,094	0	4.094	0	4.094	
14.	Billing & customer service	11,234	24	11,258	0	11,258	0	11,258	
15.	Office utilities	10,250	(262)	9,988	0	9,988	Ó	9,988	
16.	Office maintenance	1,483	62	1,545	0	1,545	ò	1,545	
17.	Miscellaneous expenses	7,617	(97)	7,520	0	7,520	D	7,520	
18.	Maintenance - water plant	53,997	(14,316)	39,681	Ö	39,681	ō	39,681	
19.	Maintenance - sewer plant	12,385	1,065	13,450	0	13,450	0	13,450	
20.	Maintenance - sludge hauling/rodding	27,424	11,129	38,553	0	38,553	Ö	38.553	
21.	Maintenance - common plant	15,207	10,846	26,053	Ó	26,053	Õ	26,053	
22	Operators expense	3,316	3,264	6,580	0	6,580	0	6.580	
23.	Water testing	3,341	130	3,471	Ö	3,471	Ō	3,471	
24.	Sewer testing	3,343	1,151	4,494	0	4,494	Ó	4,494	
25.	Equipment and chemical testing	494	317	811	0	811	o	811	
26.	Transportation expense	27,796	(11,245)	16,551	0	16,551	0	16.551	
27.	Rate case expense	65.376	(33,196)	32,180	0	32,180	Ö	32,180	
28.	WSC expense adjustment	0	(11,584)	(11,584)	0	(11,584)	Ó	(11,584)	
29.	CWS office expense adjustment	0	(1,275)	(1,275)	0	(1,275)	ō	(1,275)	
30.	Total O&M expenses	593,701	(62.313)	531,388	0	531,388	0	531,388	
31	Depreciation expense	141,634	(35,141)	106,493	0	106,493	0	106,493	
32.	Amortization expense	(15,890)	(446)	(16,336)	ō	(16,336)	ő	(16,336)	
33	Property taxes	4,765	(2,524)	2,241	Ď	2,241	Ö	2,241	
34.	Payroll taxes	18,682	(1,387)	17,295	0	17,295	o o	17.295	
35	Regulatory fee	864	1	865	804	1,689	311	1,176	
36	Gross receipts tax	33,862	39	33.901	32.656	66,557	13.021	46,922	
37	State income tax	23,801	(22,788)	1,013	39,090	40,103	12,186	13,199	
38	Federal income tax	95,297	(90,758)	4,539	176,641	181,180	54,991	59,530	
39	Total operating revenue deductions	896,716	(215,317)	681,399	249,191	930,590	80,509	761.908	
40.	Net operating income for return	(\$209,472)	\$248,810	\$39,338	\$420,327	\$459,685	\$178,967	\$218,305	

^[1] Stipulation Exhibit I, Schedule 3(a) plus Schedule 3(b).

Docket No. W-1012, Sub 7 NET OPERATING INCOME FOR A RETURN For The Test Year Ended December 31, 2005

Water Operations

Public Per Line Per Staff Public No. Item Application Adjustments [1] State	olic Compa	any	Operations After Rate	Stipula	Operations
	iff [1] Increa	•	After Rate	61	
No. Item Application Adjustments [1] Ste		! - !		Net	After Rate
) (d)	 ' ' .	Increase [1]	Increase [1]	increase [1]
(a) (b) (c	, (4))	(e)	(f)	(g)
Operating Revenues:					
		5,769	\$774,171	\$127,354	\$522,758
	66,280	0	56,280	0	56,280
	22,152	0	22,152	0	22,152
	(6,660)	<u> </u>	(6,660)	0	(6,660)
5. Total operating revenues 447,549 19,625 46	7,174 375	5,769	842,943	127,354	594,528
Operating & Maintenance Expenses:					
	2.294	0	42.294	•	40.004
	3,431	o	3,431	0	42,294
	3.568	0	103,568	0	3,431
	2.581	Ö	2,581	0	103,568
1,100	4.049	0	24.049	0	2,581
	1,043	0	11,043	0	24,049 11,043
	2.345	0	2,345	0	2.345
1100	2.514	0	2,543	0	2,345 2,514
	6,927	ō	6,927	Ô	-1
and the same of th	6,133	0	6,133	0	6,927
16. Office maintenance 909 40	949	ō	949	0	6,133 94 9
	4,617	Ö	4,617	0	4.617
(9,681	Ö	39,681	0	
19. Maintenance - sewer plant 0 0	0	Ö	0	0	39,681 0
20. Maintenance sludge hauting/rodding 0 0	Õ	Ö	0	o o	0
	8,123	0	8,123	0	8,123
	4.040	a	4.040	0	4,040
	3.471	Ö	3,471	o o	3,471
24. Sewer testing 0 0	0	Ö	0	0.	3,471
25. Equipment and chemical testing 247 251	498	ő	498	0	498
	0.162	o o	10,162	o o	10.162
	9,759	Ö	19.759	ŏ	19,759
	7,113)	ŏ	(7,113)	0	(7,113)
29. CWS office expense adjustment 0 (783)	(783)	0	(783)	ŏ	(7.113)
	3,289	-	288,289	o -	288,289
31. Depreciation expense 90,696 (19,744) 70	952		70.000	_	
(10,144)		0	70,952	0	70,952
(201)	9,574)	0	(9,574)	0	(9,574)
	1,376	0	1,376	0	1,376
34. Payroll taxes 11,452 (833) 10 35. Regulatory fee . 561 0	0,619	0	10,619	0 ,	10,619
		451	1,012	152	713
(10)		,031	33,718	5,094	23,781
(10,150)		860	25,873	8,426	9,439
(10,100)	,539 111,		115,902	37,743	42,282
39 Total operating revenue deductions 501,507 (115,045) 386	,462 151.	/05	538,167	51,415	437,877
40. Net operating income for return (\$53,958) \$134,670 \$80	,712 \$224,	064	\$304,776	\$75,939	\$156,651

^[1] Agreed to by the parties.

Dockel No. W-1012, Sub 7 NET OPERATING INCOME FOR A RETURN For The Test Year Ended December 31, 2005

Sewer Operations

Sewer Operations			Present Rates		Company Propo	sed Rates	Stipulated		
			Public	Per	Net	Operations		Operations	
1:		Per	Staff	Public	Company	After Rate	Net	After Rate	
Line	item	Application	Adjustments [1]	Staff [1]	Increase [1]	Increase [1]	Increase [1]	Increase [1]	
No.	. <u>item</u>	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
	Operating Revenues:	, ,							
1.	Service revenues	\$210,201	\$4,093	\$214,294	\$293,749	\$508,043	\$132,122	\$346,416	
2	Availability revenues	29,520	(1,080)	28,440	0	28,440	0	28,440	
3.	Miscellaneous revenues	12,948	401	13,349	0	13,349	0	13,349	
4.	Uncollectible accounts	(12,974)	10,454	(2,520)	0	(2,520)	00	(2,520)	
5.	Total operating revenues	239,695	13,868	253,563	293,749	547,312	132,122	385,685	
	Onessing P Maintenance Eugeness:								
_	Operating & Maintenance Expenses:	35,380	(68)	35.312	0	35,312	0	35.312	
6.	Electric power	12,473	656	13,129	0	13,129	ō	13,129	
7.	Chemicals	71,990	(6,881)	65,109	0	65,109	ŏ	65,109	
8.	Salaries and wages	1,855	(233)	1,622	Ö	1,622	ő	1,622	
9.	Outside services - direct	15,701	(583)	15,118	o o	15,118	ŏ	15,118	
10.	Employee benefits	10,442	(3,499)	6,943	Ö	6,943	n	6,943	
11.	Insurance - other	1,699	(225)	. 1,474	ŏ	1,474	Ô	1,474	
12.	Rents	1,433	147	1,580	ŏ	1,580	ñ	1,580	
13.	Office supplies	4.348	(17)	4,331	o o	4,331	Ô	4,331	
14.	Billing & customer service	3,967	(112)	3,855	ŏ	3,855	Ŏ	3,855	
15.	Office utilities	5,507 574	22	596	ŏ	596	ō	596	
16.	Office maintenance	2,948	(45)	2.903	ŏ	2.903	Õ	2,903	
17.	Miscellaneous expenses	2,540	(43)	2,303	ő	0	Õ	0	
18.	Maintenance - water plant	12,385	1,065	13,450	Ö	13,450	Õ	13,450	
19	Maintenance - sewer plant	27,424	11,129	38.553	ŏ	38,553	Ô	38,553	
20.	Maintenance - sludge hauling/rodding	8,075	9.855	17,930	ő	17,930	Ö	17,930	
21.	Maintenance - common plant	1,658	882	2,540	ŏ	2,540	Õ	2,540	
22.	Operators expense	1,0 50	002	2,540	ő	2,010	Ö	0	
23.	Water testing	3,343	1,151	4.494	Ö	4,494	Õ	4,494	
24.	Sewer testing	3,343 247	66	313	ŏ	313	ŏ	313	
25.	Equipment and chemical testing	13,898	(7,509)	6.389	ō	6,389	ő	6.389	
26.	Transportation expense	32,688	(20,267)	12,421	o	12,421	ŏ	12,421	
27.	Rate case expense	0	(4,471)	(4,471)	Ö	(4,471)	ő	(4,471)	
28.	WSC expense adjustment	Ŏ	(492)	(492)	ő	(492)	ő	(492)	
29.	CWS office expense adjustment	262,528	(19,429)	243,099		243,099	 .	243,099	
30.	Total O&M expenses	202,320	(15,425)	245,035	J	240,000	v	240,000	
31.	Depreciation expense	50,938	(15,397)	35,541	0	35,541	0	35,541	
32.	Amortization expense	(6,573)	(189)	(6,762)	0	(6,762)	0	(6,762)	
33.	Property taxes	2,382	(1,517)	865	0	865	0	865	
34.	Payroll taxes	7,230	(554)	6,676	Q	6,676	0	6,676	
35.	Regulatory fee	303	1	304	353	657	159	463	
36	Gross receipts tax	15, 160	54	15,214	17,625	32,839	7,927	23,141	
37.	State income tax	12,638	(12,638)	0	14,230	14,230	3,760	3,760	
38.	Federal income tax	50,603	(50,603)	<u> </u>	65,278	65,278	17,248	17,248	
39.	Total operating revenue deductions	395,209	(100,272)	294,937	97,486	392,423	29,094	324,031	
40.	Net operating income for return	(\$155,514)	\$114,140	(\$41,374)	\$196,263	\$154,889	\$103,028	\$61,654	

⁽¹⁾ Agreed to by the parties

BEFORE

THE PUBLIC SERVICE COMMISSION OF

SOUTH CAROLINA

DOCKET NO. 2006-107-W/S

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IN RE:

Application of United Utility Companies,
Inc. for adjustment of rates and charges
and modifications to certain terms
and conditions for the provision of
water and sewer service.

PREBUTTAL TESTIMONY
BRUCE T. HAAS

- Q. ARE YOU THE SAME BRUCE T. HAAS THAT HAS PREFILED DIRECT
- 2 TESTIMONY IN THIS CASE?
- 3 A. Yes, I am.

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- Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY IN THIS
 PROCEEDING, MR. HAAS?
- 7 A. The purpose of my rebuttal testimony is to respond on behalf of United Utility
- 8 Companies, Inc., or "UUC", to portions of the pre-filed direct testimony of Dawn M.
- 9 Hipp on behalf of the South Carolina Office of Regulatory Staff, or "ORS".
- Additionally, I will address some of the specific and general comments our customers
- made during the night hearing in this matter.

Q. TO WHAT PORTIONS OF MS. HIPP'S TESTIMONY DO YOU WISH TO

14 RESPOND?

First, I would like to generally comment on the Business Office Compliance Review, the system inspections and the findings made by Ms. Hipp. The Company is gratified by ORS's recognition that our business systems are well suited to ensure compliance with the Commission's regulations and that the systems operated by UUC are meeting the required standards. The Company works very hard to operate these systems efficiently, safely and properly and we believe that ORS's review of the service we provide reflects that.

Q.

A.

A.

ARE THERE ANY ASPECTS OF THE REVIEW WITH WHICH YOU DO NOT AGREE?

Yes. Although the review generally reflects that we are operating our systems well, there is one point made by Ms. Hipp with which I feel the need to comment on. Ms. Hipp states that the Company has failed to comply with Commission regulations R. 103-514 and R. 103-714 because it did not notify the Commission or ORS of a Consent Order issued by the South Carolina Department of Health and Environmental Control, or DHEC pertaining to our Briar Creek Subdivision I wastewater treatment facility, or WWTF. I disagree with her on this point for several reasons. First, R. 103-714 is inapplicable in this instance because it pertains to water service only. Second, and as Ms. Hipp's testimony recognizes, R. 103-514 applies only where the violation noticed by DHEC affects the service to a customer. The Consent Order in question regarded a purported violation of permitted discharge limits for ammonia-nitrogen on discharge monitoring reports submitted to DHEC for the September 2003 and February 2004

monitoring periods. The Company attributed this violation to a blockage in the Return Activated Sludge line; however, DHEC noted that once the blockage was cleared, the levels returned to normal. The Company expressed its belief that the second violation was simply the result of lab error, as several other samples taken showed no increased levels.

It is certainly possible for a utility to have a violation of a DHEC rule that has no affect on service to a customer, and that was the case here. The violation solely concerned two samples that indicated discharge of excessive levels of ammonia-nitrogen and did not impact the service received by customers. UUC informed DHEC, as referenced in the consent order, that there were no operational problems at the WWTF. Further, the consent order does not contain any allegations that the service to customers was impacted, and the Company has received no notices from DHEC regarding alleged violations that have had an affect on our ability to serve a customer, nor did any customers complain to UUC, DHEC, ORS or the Commission that these violations had affected their sewer service. Additionally, R. 103-514 does not obligate the Company to file any notice of violation or consent order with ORS. Even if such violations are required to be filed with ORS, the violation occurred and the consent order was issued prior to ORS officially becoming effective on January 1, 2005 pursuant to Act 175 or 2004.

Q. DO YOU HAVE ANY COMMENTS ON MS. HIPP'S RECOMMENDATION TO INCREASE THE COMPANY'S BOND?

A. I do not. Company witness Lena Sunardio will, however, comment on that issue in her rebuttal testimony.

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Q. WHAT CUSTOMER CONCERNS EXPRESSED AT THE NIGHT HEARINGS DO YOU WISH TO RESPOND TO, MR. HAAS?

Two of our customers at the Anderson County hearing stated that there were odor problems from time to time at the WWTF in the Chambert Forest subdivision. Initially, I would note that ORS's review reflects that it received only two customer complaints in the test year, neither of which related to odor. I would further note that odor from wastewater treatment facilities is no phenomenon as, by the very nature of the business and process, unpleasant aromas will from time to time be emitted from sewer utility plants. It simply cannot be avoided. However, the extent and frequency of the odor varies based upon a variety of factors. The proximity of a sewer facility to customer premises has a large impact on the situation, with odor being more frequently noticed by And in some instances, odor is more noticeable as some customers than others. customers move about the area on foot. The weather and atmospherics can also play a part in the pervasiveness of odor, particularly when customers are out of doors. This is borne out by the system inspection reports submitted by the ORS in this case as exhibits to Ms. Hipp's testimony. The ORS report of its inspection of the Chambert Forest I and II plant noted that odor at the plant facility was limited to a "slight odor at 3:00 p.m." By contrast, one customer noted that the odors from the WWTF increased during heavy rains. And, there is also the subjective element of customer opinion on this issue which has to be taken into account; what may be an unreasonable level of odor to some may not be unreasonable to others. Our ability to abate odor – which is a costly undertaking – is often dictated by these types of factors.

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WHY IS ODOR ABATEMENT A COSTLY UNDERTAKING?

To begin with, in almost all of the cases involving odor issues, the facility consists in whole or in part of aeration ponds or equalization basins. Depending upon the amount of rain and the atmospheric conditions, odor can develop more easily and quickly at these types of facilities than any other. One obvious alternative is to eliminate the treatment facility altogether by interconnection into regional facilities. However, in addition to the impact on rate base that results from interconnection costs and the addition of extraordinary retirement expenses when a working treatment facility is eliminated, the bulk treatment costs incurred with the regional facility must be passed on to customers. As Ms. Hipp's testimony reflects, we are also in the process of upgrading the Chambert Forest wastewater treatment operations to improve our ability to meet discharge limits set by our NPDES permit. We believe that this upgrade will further improve any odor issues with this plant.

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WILL THESE EFFORTS ELIMINATE ODOR?

No, they will not. As I stated, our ability to abate odor is to a certain extent dictated by the type of system, its proximity to residential areas, atmospheric conditions and customer perceptions. Odor cannot be eliminated. Of course, it is our desire that our

customers not be subjected to offensive odors to the greatest extent possible and we are committed to conducting our business in a manner which will give us an opportunity to attain that goal. However, in some instances, it is not practicable to expect that we can do that – even with the significant additional expenses of the type I just described.

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DOES THE EXISTENCE OF ODOR AFFECT THE ADEQUACY OF THE COMPANY'S SEWER SERVICE?

No, it does not. The Company's sewer facilities are adequate to provide service to all of our customers and there have been no instances where service has been unavailable to meet the needs of our customers as a result of odor or any other reason.

DO YOU HAVE ANY OTHER COMMENTS ON THE TESTIMONY PROVIDED BY THE CUSTOMERS?

Two of our customers stated that they were billed for sewer service provided to previous owners of their residences. The billing history of these customers maintained by the Company did not indicate any attempt on our part to have these customers pay for bills incurred by previous residents. Our customers are billed only for services rendered from their move-in date. Unfortunately, these types of situations contribute to higher levels of uncollectibles experienced by UUC.

Similarly, two of our customers stated they were "back billed" several months of service. In both instances, the customers purchased residences which we supply with sewer service but for which we had received no notice of their purchase. Generally, as

was the case in these situations, our operator or other UUC employee will become aware of someone living in a previously vacant home during field observations in our service area. UUC notifies the customer that he or she has been provided with our sewer service and, pursuant to 26 S.C. Code Ann. Regs. R. 103-533(2), bills the customer for the services rendered, up to a maximum of six months. The Company does make installment arrangements with our customers in the circumstance where necessary.

Unlike local government entities and special purpose districts, UUC has no authority to impose liens on real property where sewer services have been provided but not paid for. Nor can UUC have assessments for sewer service collected with property taxes as do governmental utilities. If the Company had similar statutory authority, a means would exist by which purchasers of real property could be alerted at a closing by their attorney that an amount is due for prior services the Company has rendered. Also, I would note that Fannie Mae Form 1004, effective March 2005, a copy of which is attached hereto as BTH Rebuttal Exhibit No. 1, may also alert a prospective homebuyer whether a residence has sanitary sewer.

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COULD YOU ELABORATE ON YOUR STATEMENT REGARDING UNCOLLECTIBLES?

Yes. It is my understanding that Ms. Hipp is recommending that the Commission make an adjustment in the level of uncollectibles experienced by UUC during its test year. While every company strives to ensure that it receives payment for every service rendered, in some situations, that is not possible. UUC attempts to collect responsibly on

all of its bills, but sometimes that is not possible given the limitation on our ability to control the circumstances where property is transferred without notice to UUC. One customer testified that several homes were using UUC's sewer services without paying. In my opinion, UUC should not be punished because of customer failure to clear accounts before they transfer properties, which increases the amount of uncollectibles.

Q. DO YOU HAVE ANY OTHER COMMENTS CONCERNING CUSTOMER TESTIMONY?

A. Yes. I would like to comment on statements made by Ms. Beverly Wade at the hearing in Spartanburg. In October of 2003, Ms. Wade's account was noted as being delinquent as the Company had never received payment for the September 2004 invoice. On October 9, 2003, Ms. Wade contacted our office and informed us that she had mailed a money order to the West Columbia billing center. Our Customer Service Representatives advised her that we needed a copy of the money order so that we could properly research the payment and resolve her complaint. On October 21, 2003, Ms. Wade contacted our offices again and we understood that she would be providing the necessary document; however we never received a copy of the money order and Ms. Wade did not contact our offices again.

Q. ARE YOU AWARE THAT MS. WADE FILED WITH THE COMMISSION A COPY OF THE RECEIPT FOR THE MONEY ORDER?

Yes, I am. However, I would note that the document Ms. Wade provided to the Commission was a receipt of when she purchased the money order and did not indicate whether the money order was deposited by UUC. Our records do not reflect the receipt of a money order from Ms. Wade during this time period.

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DO YOU HAVE ANY OTHER COMMENTS?

The Company's witness Mr. Converse Chellis will elaborate on this point more fully in his testimony, but I have one final comment concerning the testimony given by Mr. Alvin Simpson during the night hearing in which he stated that the UUC systems were relatively small and suggested that smaller plants were cheaper to operate. Apparently to support his opinion, Mr. Simpson stated that these facilities should only have to undertake lab costs every one to three months to test for toxicity. I am not sure of the testing that is required of the Gaffney wastewater treatment facility, but we have to conduct many more tests at our systems to remain compliant with DHEC standards. For instance, at just one of our WWTF's, Briar Creek II, we conduct no less than seventy tests each month from ph levels to fecal coliform levels to nitrogen and phosphorus levels. Such testing is expensive, but necessary to comply with all federal and state regulations.

Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

21 A. Yes, it does.

Exhibit No. 1

Uniform Residential Appraisal Report

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Property Address	· · · · · · · · · · · · · · · · · · ·			City	· · · · · · · · · · · · · · · · · · ·		ate	Zip Code
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Legal Description								
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Occupant Owner	Tenant Vac	ant Special Ass	sessments	\$	☐ PU	D HOA\$		per year per m
Property Rights Appra	ised Fee Simple	Leasehold Other (descri	ibe)					
Assignment Type	Purchase Transaction	Refinance Transaction	Other (des	scribe)				
Lender/Client		Address						
	currently offered for s	ale or has it been offered for sale i	in the twel	ve months prior to the	effective dat	e of this appra	isal?	Yes No
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Electricity		Water]	Str	eet		
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Uniform Residential Appraisal Report File # There are comparable properties currently offered for sale in the subject neighborhood ranging in price from \$ to \$ comparable sales in the subject neighborhood within the past twelve months ranging in sale price from \$ There are to \$ FEATURE SUBJECT COMPARABLE SALE # 1 COMPARABLE SALE # 2 COMPARABLE SALE # 3 Address Proximity to Subject Sale Price THE STATE OF A S \$ 200 Sale Price/Gross Liv. Area sq. ft. sq. ft. sq. ft. Data Source(s) Verification Source(s) VALUE ADJUSTMENTS DESCRIPTION +(-) \$ Adjustment DESCRIPTION DESCRIPTION +(-) \$ Adjustment DESCRIPTION +(-) \$ Adjustment Sale or Financing Concessions Date of Sale/Time Location Leasehold/Fee Simple Site View Design (Style) Quality of Construction Actual Age Condition Above Grade Total Bdrms. Baths Total Bdrms. Baths Total Bdrms, Baths Total Borms. Baths Room Count Gross Living Area sq. ft. sq. ft sq. ft. sq. ft. Basement & Finished Rooms Below Grade Functional Utility Heating/Cooling Energy Efficient Items Garage/Carport Porch/Patio/Deck Net Adjustment (Total) □ + Adjusted Sale Price Net Adi Net Adi Net Adi. of Comparables % |\$ % % \$ Gross Ad Gross Adi Gross Ad I did did not research the sale or transfer history of the subject property and comparable sales. If not, explain My research 🗌 did 🔲 did not reveal any prior sales or transfers of the subject property for the three years prior to the effective date of this appraisal. Data source(s) My research 🗌 did 🔲 did not reveal any prior sales or transfers of the comparable sales for the year prior to the date of sale of the comparable sale. Report the results of the research and analysis of the prior sale or transfer history of the subject property and comparable sales (report additional prior sales on page 3). ITEM COMPARABLE SALE # 1 COMPARABLE SALE # 2 COMPARABLE SALE #3 SUBJECT Date of Prior Sale/Transfer Price of Prior Sale/Transfer Data Source(s) Effective Date of Data Source(s) Analysis of prior sale or transfer history of the subject property and comparable sales Summary of Sales Comparison Approach Indicated Value by Sales Comparison Approach \$ Indicated Value by: Sales Comparison Approach \$ Cost Approach (if developed) \$ Income Approach (if developed) \$ This appraisal is made 🔲 "as is", 🗋 subject to completion per plans and specifications on the basis of a hypothetical condition that the improvements have been completed, 🔲 subject to the following repairs or alterations on the basis of a hypothetical condition that the repairs or alterations have been completed, or 🔲 subject to the

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Uniform Residential Appraisal Report

This report form is designed to report an appraisal of a one-unit property or a one-unit property with an accessory unit; including a unit in a planned unit development (PUD). This report form is not designed to report an appraisal of a manufactured home or a unit in a condominium or cooperative project.

This appraisal report is subject to the following scope of work, intended user, intended user, definition of market value, statement of assumptions and limiting conditions, and certifications. Modifications, additions, or deletions to the intended user, intended user, definition of market value, or assumptions and limiting conditions are not permitted. The appraiser may expand the scope of work to include any additional research or analysis necessary based on the complexity of this appraisal assignment. Modifications or deletions to the certifications are also not permitted. However, additional certifications that do not constitute material alterations to this appraisal report, such as those required by law or those related to the appraiser's continuing education or membership in an appraisal organization, are permitted.

SCOPE OF WORK: The scope of work for this appraisal is defined by the complexity of this appraisal assignment and the reporting requirements of this appraisal report form, including the following definition of market value, statement of assumptions and limiting conditions, and certifications. The appraiser must, at a minimum: (1) perform a complete visual inspection of the interior and exterior areas of the subject property, (2) inspect the neighborhood, (3) inspect each of the comparable sales from at least the street, (4) research, verify, and analyze data from reliable public and/or private sources, and (5) report his or her analysis, opinions, and conclusions in this appraisal report.

INTENDED USE: The intended use of this appraisal report is for the lender/client to evaluate the property that is the subject of this appraisal for a mortgage finance transaction.

INTENDED USER: The intended user of this appraisal report is the lender/client.

DEFINITION OF MARKET VALUE: The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller, each acting prudently, knowledgeably and assuming the price is not affected by undue stimulus. Implicit in this definition is the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby: (1) buyer and seller are typically motivated; (2) both parties are well informed or well advised, and each acting in what he or she considers his or her own best interest; (3) a reasonable time is allowed for exposure in the open market; (4) payment is made in terms of cash in U. S. dollars or in terms of financial arrangements comparable thereto; and (5) the price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions* granted by anyone associated with the sale.

*Adjustments to the comparables must be made for special or creative financing or sales concessions. No adjustments are necessary for those costs which are normally paid by sellers as a result of tradition or law in a market area; these costs are readily identifiable since the seller pays these costs in virtually all sales transactions. Special or creative financing adjustments can be made to the comparable property by comparisons to financing terms offered by a third party institutional lender that is not already involved in the property or transaction. Any adjustment should not be calculated on a mechanical dollar for dollar cost of the financing or concession but the dollar amount of any adjustment should approximate the market's reaction to the financing or concessions based on the appraiser's judgment.

STATEMENT OF ASSUMPTIONS AND LIMITING CONDITIONS: The appraiser's certification in this report is subject to the following assumptions and limiting conditions:

- 1. The appraiser will not be responsible for matters of a legal nature that affect either the property being appraised or the title to it, except for information that he or she became aware of during the research involved in performing this appraisal. The appraiser assumes that the title is good and marketable and will not render any opinions about the title.
- 2. The appraiser has provided a sketch in this appraisal report to show the approximate dimensions of the improvements. The sketch is included only to assist the reader in visualizing the property and understanding the appraiser's determination of its size
- 3. The appraiser has examined the available flood maps that are provided by the Federal Emergency Management Agency (or other data sources) and has noted in this appraisal report whether any portion of the subject site is located in an identified Special Flood Hazard Area. Because the appraiser is not a surveyor, he or she makes no guarantees, express or implied, regarding this determination.
- 4. The appraiser will not give testimony or appear in court because he or she made an appraisal of the property in question, unless specific arrangements to do so have been made beforehand, or as otherwise required by law.
- 5. The appraiser has noted in this appraisal report any adverse conditions (such as needed repairs, deterioration, the presence of hazardous wastes, toxic substances, etc.) observed during the inspection of the subject property or that he or she became aware of during the research involved in performing this appraisal. Unless otherwise stated in this appraisal report, the appraiser has no knowledge of any hidden or unapparent physical deficiencies or adverse conditions of the property (such as, but not limited to, needed repairs, deterioration, the presence of hazardous wastes, toxic substances, adverse environmental conditions, etc.) that would make the property less valuable, and has assumed that there are no such conditions and makes no guarantees or warranties, express or implied. The appraiser will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because the appraiser is not an expert in the field of environmental hazards, this appraisal report must not be considered as an environmental assessment of the property.
- 6. The appraiser has based his or her appraisal report and valuation conclusion for an appraisal that is subject to satisfactory completion, repairs, or alterations on the assumption that the completion, repairs, or alterations of the subject property will be performed in a professional manner.

APPRAISER'S CERTIFICATION: The Appraiser certifies and agrees that:

- 1. I have, at a minimum, developed and reported this appraisal in accordance with the scope of work requirements stated in this appraisal report.
- 2. I performed a complete visual inspection of the interior and exterior areas of the subject property. I reported the condition of the improvements in factual, specific terms. I identified and reported the physical deficiencies that could affect the livability, soundness, or structural integrity of the property.
- 3. I performed this appraisal in accordance with the requirements of the Uniform Standards of Professional Appraisal Practice that were adopted and promulgated by the Appraisal Standards Board of The Appraisal Foundation and that were in place at the time this appraisal report was prepared.
- 4. I developed my opinion of the market value of the real property that is the subject of this report based on the sales comparison approach to value. I have adequate comparable market data to develop a reliable sales comparison approach for this appraisal assignment. I further certify that I considered the cost and income approaches to value but did not develop them, unless otherwise indicated in this report.
- 5. I researched, verified, analyzed, and reported on any current agreement for sale for the subject property, any offering for sale of the subject property in the twelve months prior to the effective date of this appraisal, and the prior sales of the subject property for a minimum of three years prior to the effective date of this appraisal, unless otherwise indicated in this report.
- 6. I researched, verified, analyzed, and reported on the prior sales of the comparable sales for a minimum of one year prior to the date of sale of the comparable sale, unless otherwise indicated in this report.
- 7. I selected and used comparable sales that are locationally, physically, and functionally the most similar to the subject property.
- 8. I have not used comparable sales that were the result of combining a land sale with the contract purchase price of a home that has been built or will be built on the land.
- 9. I have reported adjustments to the comparable sales that reflect the market's reaction to the differences between the subject property and the comparable sales.
- 10. I verified, from a disinterested source, all information in this report that was provided by parties who have a financial interest in the sale or financing of the subject property.
- 11. I have knowledge and experience in appraising this type of property in this market area.
- 12. I am aware of, and have access to, the necessary and appropriate public and private data sources, such as multiple listing services, tax assessment records, public land records and other such data sources for the area in which the property is located.
- 13. I obtained the information, estimates, and opinions furnished by other parties and expressed in this appraisal report from reliable sources that I believe to be true and correct.
- 14. I have taken into consideration the factors that have an impact on value with respect to the subject neighborhood, subject property, and the proximity of the subject property to adverse influences in the development of my opinion of market value. I have noted in this appraisal report any adverse conditions (such as, but not limited to, needed repairs, deterioration, the presence of hazardous wastes, toxic substances, adverse environmental conditions, etc.) observed during the inspection of the subject property or that I became aware of during the research involved in performing this appraisal. I have considered these adverse conditions in my analysis of the property value, and have reported on the effect of the conditions on the value and marketability of the subject property.
- 15. I have not knowingly withheld any significant information from this appraisal report and, to the best of my knowledge, all statements and information in this appraisal report are true and correct.
- 16. I stated in this appraisal report my own personal, unbiased, and professional analysis, opinions, and conclusions, which are subject only to the assumptions and limiting conditions in this appraisal report.
- 17. I have no present or prospective interest in the property that is the subject of this report, and I have no present or prospective personal interest or bias with respect to the participants in the transaction. I did not base, either partially or completely, my analysis and/or opinion of market value in this appraisal report on the race, color, religion, sex, age, mantal status, handicap, familial status, or national origin of either the prospective owners or occupants of the subject property or of the present owners or occupants of the properties in the vicinity of the subject property or on any other basis prohibited by law.
- 18. My employment and/or compensation for performing this appraisal or any future or anticipated appraisals was not conditioned on any agreement or understanding, written or otherwise, that I would report (or present analysis supporting) a predetermined specific value, a predetermined minimum value, a range or direction in value, a value that favors the cause of any party, or the attainment of a specific result or occurrence of a specific subsequent event (such as approval of a pending mortgage loan application).
- 19. I personally prepared all conclusions and opinions about the real estate that were set forth in this appraisal report. If I relied on significant real property appraisal assistance from any individual or individuals in the performance of this appraisal or the preparation of this appraisal report, I have named such individual(s) and disclosed the specific tasks performed in this appraisal report. I certify that any individual so named is qualified to perform the tasks. I have not authorized anyone to make a change to any item in this appraisal report; therefore, any change made to this appraisal is unauthorized and I will take no responsibility for it.
- 20. I identified the lender/client in this appraisal report who is the individual, organization, or agent for the organization that ordered and will receive this appraisal report.

- 21. The lender/client may disclose or distribute this appraisal report to: the borrower; another lender at the request of the borrower; the mortgagee or its successors and assigns; mortgage insurers; government sponsored enterprises; other secondary market participants; data collection or reporting services; professional appraisal organizations; any department, agency, or instrumentality of the United States; and any state, the District of Columbia, or other jurisdictions; without having to obtain the appraiser's or supervisory appraiser's (if applicable) consent. Such consent must be obtained before this appraisal report may be disclosed or distributed to any other party (including, but not limited to, the public through advertising, public relations, news, sales, or other media).
- 22. I am aware that any disclosure or distribution of this appraisal report by me or the lender/client may be subject to certain laws and regulations. Further, I am also subject to the provisions of the Uniform Standards of Professional Appraisal Practice that pertain to disclosure or distribution by me.
- 23. The borrower, another lender at the request of the borrower, the mortgagee or its successors and assigns, mortgage insurers, government sponsored enterprises, and other secondary market participants may rely on this appraisal report as part of any mortgage finance transaction that involves any one or more of these parties.
- 24. If this appraisal report was transmitted as an "electronic record" containing my "electronic signature," as those terms are defined in applicable federal and/or state laws (excluding audio and video recordings), or a facsimile transmission of this appraisal report containing a copy or representation of my signature, the appraisal report shall be as effective, enforceable and valid as if a paper version of this appraisal report were delivered containing my original hand written signature.
- 25. Any intentional or negligent misrepresentation(s) contained in this appraisal report may result in civil liability and/or criminal penalties including, but not limited to, fine or imprisonment or both under the provisions of Title 18, United States Code, Section 1001, et seq., or similar state laws.

SUPERVISORY APPRAISER'S CERTIFICATION: The Supervisory Appraiser certifies and agrees that:

- 1. I directly supervised the appraiser for this appraisal assignment, have read the appraisal report, and agree with the appraiser's analysis, opinions, statements, conclusions, and the appraiser's certification.
- 2. I accept full responsibility for the contents of this appraisal report including, but not limited to, the appraiser's analysis, opinions, statements, conclusions, and the appraiser's certification.
- 3. The appraiser identified in this appraisal report is either a sub-contractor or an employee of the supervisory appraiser (or the appraisal firm), is qualified to perform this appraisal, and is acceptable to perform this appraisal under the applicable state law.
- 4. This appraisal report complies with the Uniform Standards of Professional Appraisal Practice that were adopted and promulgated by the Appraisal Standards Board of The Appraisal Foundation and that were in place at the time this appraisal report was prepared.
- 5. If this appraisal report was transmitted as an "electronic record" containing my "electronic signature," as those terms are defined in applicable federal and/or state laws (excluding audio and video recordings), or a facsimile transmission of this appraisal report containing a copy or representation of my signature, the appraisal report shall be as effective, enforceable and valid as if a paper version of this appraisal report were delivered containing my original hand written signature.

APPRAISER	SUPERVISORY APPRAISER (ONLY IF REQUIRED)
Signature	Signature
Name	Name
Company Name	Company Name
Company Address	Company Address
Telephone Number	
Email Address	Email Address
Date of Signature and Report	Date of Signature
Effective Date of Appraisal	State Certification #
State Certification #	or State License #
or State License #	State
or Other (describe) State #	Expiration Date of Certification or License
State	
Expiration Date of Certification or License	SUBJECT PROPERTY
ADDRESS OF PROPERTY APPRAISED	☐ Did not inspect subject property
	☐ Did inspect exterior of subject property from street
	Date of Inspection
APPRAISED VALUE OF SUBJECT PROPERTY \$	☐ Did inspect interior and exterior of subject property
LENDER/CLIENT	Date of Inspection
Name	
Company Name	COMPARABLE SALES
Company Address	☐ Did not inspect exterior of comparable sales from street
	☐ Did inspect exterior of comparable sales from street
Email Address	Date of Inspection

BEFORE

THE PUBLIC SERVICE COMMISSION OF

SOUTH CAROLINA

DOCKET NO. 2006-107-W/S

	IN R	E:)
	Inc. f and r and c	ication of United Utility Companies, for adjustment of rates and charges modifications to certain terms conditions for the provision of r and sewer service.	REBUTTAL TESTIMONY OF LENA SUNARDIO)
1	Q.	ARE YOU THE SAME LENA S	UNARDIO THAT HAS PREFILED DIRECT
2		TESTIMONY IN THIS CASE?	
3	A.	Yes, I am.	
4			
5	Q.	WHAT IS THE PURPOSE OF YO	OUR REBUTTAL TESTIMONY?
6	A.	The purpose of my rebuttal t	estimony is to respond on behalf of United Utility
7		Companies, Inc., or UUC, to certain	aspects of the testimony and exhibits which have
8		been pre-filed by the Office of Regu	latory Staff, or ORS.
9			
10	Q.	MRS. SUNARDIO HAVE YOU	REVIEWED THE PRE-FILED TESTIMONY
11		OF CHRISTINA SEALE ON BEH	IALF OF ORS IN THIS MATTER?
12	A.	Yes, I have reviewed her t	estimony and the Audit Department Report she
13		attached to her testimony.	

1	Q.	ARE THERE ANY ADJUSTMENTS DETAILED IN MS. SEALE'S
2		TESTIMONY AND THE ORS AUDIT REPORT WITH WHICH YOU
3		AGREE?

Yes, I agree with quite a few of them, although I do qualify certain of our agreements in this regard, in particular, the Company's agreement with the adjustments related to the removal of the system serving Gem Lakes.

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8 Q. COULD YOU EXPLAIN THAT LAST STATEMENT?

A. Yes. Although the Company has applied for the authority and received Commission approval to transfer the Gem Lakes system, it is my understanding that this property will not close and be legally transferred to the City of Aiken at least until August 30, 2006. While I do agree with several adjustments relating to the removal of this system, it is with the understanding and the assumption that the closing on this property will be undertaken and successful. In the event there is no closing on this property, I would disagree with the related adjustments.

16

17 Q. GIVEN THOSE QUALIFICATIONS, COULD YOU EXPLAIN WHICH OF 18 ORS'S ADJUSTMENTS YOU ACCEPT?

- 19 **A.** Specifically, the Company accepts the following adjustments proposed by ORS:
- Number 1 Service Revenues United Utility Companies, Inc. (UUC) agrees with the \$6,823 adjustment to service revenues to reflect test year customer billings.

1	Numbers 2, 25, and 26 - Service Revenues - UUC agrees with the sewer
2	revenues adjustment relating to the transfer of Gem Lakes and the relinquishment of
3	Keowee Townhomes service territory.
4	Number 9 - General Expenses - UUC agrees with the \$3,000 adjustment to
5	remove a DHEC fine paid relating to Briarcreek Subdivision.
6	Number 10 - Depreciation Expense - UUC agrees with the (\$4,187)
7	adjustment to annualize depreciation expense as of June 30, 2006 for known and
8	measurable plant in service.
9	Number 13 - Tax Accrual for Property Taxes - UUC agrees with the removal
10	of the \$40,295 for property taxes to reflect actual test year expense. This adjustment
11	was proposed by UUC in the original filing.
12	Number 16 - Amortization of Contributions in Aid of Construction - UUC
13	agrees with the \$172 adjustment to annualize amortization of CIAC expense as of
14	September 30, 2005.
15	Number 17 - Interest During Construction - UUC agrees with the elimination
16	of the \$1,064 in IDC costs for rate making purposes. This adjustment was proposed
17	by UUC in the original filing.
18	Numbers 18 and 43 – Customer Growth – Although we do not propose such an
19	adjustment, UUC agrees with the calculation methodology used by ORS to arrive at its
20	proposed net \$2,295 customer growth adjustment as of June 30, 2006. However, the
21	actual amount of any adjustment will differ from ORS' adjustment due to the
22	difference in revenues requested.

1	Number 19 – Gross Plant in Service – UUC agrees with the \$249,580
2	adjustment to include pro forma projects, general ledger additions and capitalized time
3	as of June 30, 2006.
4	Number 21 - Accumulated Depreciation - UUC agrees with the \$46,426
5	adjustment to reduce accumulated depreciation for general ledger retirements and
6	annualized depreciation expense adjustment.
7	Number 23 - Contributions in Aid of Construction - UUC agrees with the
8	(\$172) adjustment to reflect the amortization of CIAC expense as of September 30,
9	2005 as a result of Adjustment 16.
10	Number 27 - Miscellaneous Revenues - UUC agrees with the (\$1,663)
11	adjustment to remove the miscellaneous revenues associated with Gem Lakes and
12	Keowee Townhomes.
13	Number 29 - Maintenance Expenses - UUC agrees with the (\$64,496)
14	adjustment to remove per book maintenance expenses of Gem Lakes.
15	Number 30 and 31 - Operators' Salaries and Operating Expense Charged to
16	Plant associated with Gem Lakes - UUC agrees with the methodology of applying a
17	ratio of .0262 to the operators' salary adjustment and the operators' salaries charged to
18	plant adjustment to reflect the transfer of Gem Lakes. However, the actual amount
19	calculated by UUC will differ from ORS's adjustment due to the salary increases that
20	were not incorporated in the ORS adjustment.
21	Number 32 - General Expenses - UUC agrees with the (\$46,013) adjustment
22	to remove per book general ledger expense of Gem Lakes from total expenses to
23	reflect the transfer of Gem Lakes.

1	Number 33 and 34 - Office Salaries and Pension and Other Benefits - UUC
2	agrees with the methodology of applying a ratio of .1477 to office salaries' adjustment
3	and .0547 to pension and other benefits adjustment to reflect the transfer of Gem
4	Lakes. However, the actual amount calculated by UUC will differ from ORS'
5	adjustment due to the salary increase that was not incorporated by the ORS.
6	Number 35 – Allocation Amount – UUC agrees with the (\$12,829) adjustment
7	to remove allocation amounts associated with the Gem Lakes transfer.
8	Number 36 - Depreciation Expense - UUC agrees with the (\$10,060)
9	adjustment to remove depreciation expense related to the transfer of Gem Lakes and
10	the relinquishment of Keowee Townhomes service territory.
11	Number 37 - Taxes Other Than Income - UUC agrees with the (\$13,634)
12	adjustment to remove per book taxes other than income expense to reflect the transfer
13	of Gem Lakes.
14	Number 38 and 39 – Payroll Taxes and Utility/Commission Tax – UUC agrees
15	with the methodology to remove .0428 of the payroll tax adjustment and .1617 of the
16	utility/commission tax adjustment to reflect the transfer of Gem Lakes. However,
17	these amounts will differ due to adjustments with which the Company does not agree.
18	Number 42 – Amortization of CIAC – UUC agrees with the \$512 adjustment
19	to remove amortization of CIAC to reflect the transfer of Gem Lakes.
20	Number 44 - Gross Plant in Service - UUC agrees with the (\$670,606)
21	adjustment to remove per book plant in service to reflect the transfer of Gem Lakes
22	and the relinquishment of Keowee Townhomes.

I	Number 45 – Operating Expense Charged to Plant – UUC agrees with the
2	methodology to apply a ratio of .0262 to operators' salaries capitalized to plant
3	associated with the Gem Lakes transfer. However, the amount of the adjustment will
4	be different because ORS did not incorporate the salaries increases in their
5	adjustments.
6	Number 46 - Accumulated Depreciation - UUC agrees with the removal of
7	\$144,025 from accumulated depreciation associated with the transfer of Gem Lakes
8	and the relinquishment of Keowee Townhomes service territory.
9	Number 48 – Contributions in Aid of Construction (CIAC) – UUC agrees with
10	the \$34,120 removal of CIAC per books to reflect the transfer of Gem Lakes.
11	Number 49 – Accumulated Deferred Income Taxes (ADIT) – UUC agrees with
12	the \$123,876 removal of ADIT per books to reflect the transfer of Gem Lakes.
13	Number 50 – Customer Deposits – UUC agrees with the \$2,190 removal of per
14	books customer deposits to reflect the transfer of Gem Lakes.
15	Number 51 - Water Service Corporation Rate Base - UUC agrees with the
16	(\$2,465) adjustment to reflect UUC's transfer of Gem Lakes and the relinquishment of
17	its Keowee Townhomes service territory.
18	Number 52 - Interest Expense - UUC agrees with the \$14,584 removal of
19	interest expense related to the transfer of Gem Lakes and the relinquishment of
20	Keowee Townhomes.
21	Number 58 - Customer Growth - UUC agrees with methodology to calculate
22	customer growth for the proposed revenue increase. However, the amount of the

1		actual adjustment will differ from ORS's adjustment due to the difference in revenues					
2		requested.					
3							
4	Q.	ARE THERE ANY ADJUSTMENTS DETAILED IN THE ORS AUDIT					
5		REPORT AND TESTIMONY THAT YOU DISAGREE WITH?					
6	A.	Yes, there are sixteen specific adjustments proposed by ORS with which we do					
7		not agree. Also, these proposed adjustments would affect certain other fallout, or					
8		related item adjustments, such as taxes, cash working capital, etc. Therefore, the					
9		Company would disagree with these fallout adjustments as well.					
10							
l 1	Q.	WOULD YOU PLEASE DISCUSS THE FIRST ORS ADJUSTMENT WITH					
12		WHICH YOU DISAGREE?					
13	A.	Yes. It is Adjustment Number 3 dealing with Uncollectible Accounts.					
14							
15	Q.	HOW HAS THE COMMISSION HISTORICALLY CALCULATED THE					
16		UNCOLLECTIBLE PERCENTAGE?					
17	A.	Historically, the Commission has calculated the uncollectible percentage based					
18		on the trial balance amount of actual booked uncollectibles during the test year divided					
19		by the test year revenues.					
20							
21	Q.	WHAT PERCENTAGE IS ORS USING TO CALCULATE THE					
22		UNCOLLECTIBLE ACCOUNTS?					

ORS is using 1.50% to calculate the uncollectible expenses for the water and sewer revenue accounts. By using 1.50%, ORS is adjusting the uncollectible account by a net amount of \$32,715 which includes a \$30,426 adjustment to "higher than typical" uncollectibles per 9/30/05 books and a \$2,289 adjustment associated with the Gem Lakes transfer.

A.

7 Q. WHY IS THE 1.50% USED BY ORS TO CALCULATE THE UNCOLLECTIBLES UNREASONABLE?

ORS has not cited to any authority to support the 1.50% used to calculate the uncollectibles. They simply state that the 1.50% is "a reasonable percentage to calculate uncollectible accounts based on their examination of billing records" and that UUC's uncollectibles are higher than typical. I do not believe this is the case.

A.

Q. WHY DO YOU BELIEVE THAT THE UNCOLLECTIBLE AMOUNT IS NOT HIGHER THAN TYPICAL?

First and foremost, in UUC's last rate case, the Commission found, in its Order No. 2002-214, that the appropriate uncollectible amount for the Company was 2.99%. It is my understanding that when a utility files an application for a rate case in South Carolina, among the factors the Commission should consider is the comparison of the utility's previous rate case filing. In 1996, the South Carolina Supreme Court issued its opinion in Heater of Seabrook, Inc. v Public Service Commission, 324 S.C. 56, 478 S.E. 2d 826 (1996). The Court stated there that "[i]n determining whether Heater's expenses had increased enough to justify a rate increase, [the] Commission should

1		have compared the current test year, including any known and measurable changes
2		after the test year, with [the] test year from the prior case." In comparing the
3		Company's test year from this rate case with that of the previous rate case, the current
4		uncollectible percentage is not uncharacteristic of this expense.
5		
6	Q.	WHAT WAS UUC'S UNCOLLECTIBLE PERCENTAGE IN THE LAST RATE
7		CASE?
8	Α.	After the audit was conducted during the 2000 UUC rate case, Commission
9		Staff used the per book uncollectible percentages of 2.76% for the water and 3.14%
10		for the sewer operations. The Commission should not cut the uncollectible to half the
11		level of what was previously found reasonable.
12		
13	Q.	IN YOUR OPINION, WHY DOES UUC EXPERIENCE THAT LEVEL OF
14		UNCOLLECTIBLES?
15	A.	I believe that there are several reasons for the level of uncollectible
16		experienced by UUC, but the Company's witness, Bruce Haas, will discuss that matter
17		in more detail.
18		
19	Q.	WHAT PERCENTAGE FOR UNCOLLECTIBLES SHOULD BE USED IN
20		THE UUC RATE CASE?
21	A.	In previous rate cases in which ORS has recommended an adjustment for
22		uncollectible amounts, ORS has pointed to specific factors which caused the increased
23		uncollectible amount. For instance, in Docket No. 2004-259-S, ORS recommended an

adjustment to uncollectibles based upon inconsistent billing practices, waiving late fees and noncollection of commercial customer accounts. Even in that instance, ORS did not recommend adjusting uncollectibles because they were excessive, but because ORS concluded that the utility had questionable practices concerning its operations and management. ORS has made no such claims against UUC. In fact, ORS has stated that UUC bills in accordance with our approved rate structure and that our business systems are well suited to comply with the administrative aspects of the Commissions regulations. Further, Ms. Hipp noted that our invoice adjustments, deposit refunds, and late payment penalties are automated, accurate and timely.

Moreover, it is my understanding that the Commission has previously made adjustments to uncollectibles based on the actual uncollectibles experienced during the test year. In Order No. 91-412, Docket No. 90-698-C (dated May 29, 1991), the Commission stated that it "believes that it is appropriate to adjust uncollectibles using an uncollectible rate which reflects a normal year." In that instance, GTE South, Inc. experienced a higher than normal level of uncollectibles as a result of Hurricane Hugo and the Commission applied a normalized rate to reflect "uncollectible expenses as would be typical in a normal year. Therefore, uncollectibles should be based on the most recent and accurate data which in this case is the 2004 and 2005 trial balances and annual reports and reflects the normal level of uncollectibles experienced by the company. Based on the test year water revenues in the amount of \$43,424 and the sewer revenues in the amount of \$737,783, the following percentages should be used: 4.68% for the water uncollectibles and 5.73% for the sewer uncollectibles. These recent historical percentages should be allowed to be applied in calculating the

uncollectibles going forward. Based upon these percentages, UUC does support adjusting the sewer uncollectibles (\$8,381) related to the Gem Lakes transfer.

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WHAT IS THE NEXT ORS ADJUSTMENT WITH WHICH YOU DISAGREE?

I disagree with ORS's Adjustment Number 4 pertaining to operators' salaries. ORS's adjustment only includes a portion of the operators' salaries. Their adjustment totals \$2,265 and represents the annualized salaries as of 9/30/05 without salary increases. Operators received salary increases as of 7/1/06 and the salary increase adjustment totals \$16,408, for a total salary adjustment of \$18,673. Every year UI's operating subsidiaries reviews all operators and office personnel and makes annual salary adjustments. ORS has proposed no salary increase adjustment to operators' salaries on the basis that "supporting documentation was not received in sufficient time to allow for its audit". The payroll reports were provided to ORS as soon as they became available on 7/24/06. The increase in the operators' salaries is a known and measurable expense which we have documented with external source documents. In The Regulation of Public Utilities (1993 Ed.), Dr. Charles F. Phillips, Jr., elaborates on post test year changes at page 196 by noting: "Philosophically, the strict test year assumes the past relationship among revenues, costs and net investment during the test year will continue into the future.' To the extent that these relationships are not constant, the actual rate of return earned by a utility may be quite different from the rate allowed by the commission. For many years, commissions have adjusted test-year data for 'known changes'; that is, a change that actually took place during or after the test period."

Q. WHAT IS THE NEXT ORS ADJUSTMENT WITH WHICH YOU DISAGREE?

I also disagree with ORS Adjustment Number 5 pertaining to Operating Expense Charged To Plant. ORS has proposed to adjust the operating expense charged to plant by (\$2,122). This total does not include the operators' salaries increase and increase in benefits & payroll taxes stemming from the increase in salaries. I used 30.12% to calculate the operating expense charged to plant. This percentage was used by ORS to calculate its adjustment as well. The adjustment for operating expense charged to plant amounts to (\$5,700).

Q.

A.

A.

WHAT IS THE NEXT ORS ADJUSTMENT WITH WHICH YOU DISAGREE?

It is ORS Adjustment Number 6 which addresses Office Salaries. ORS's adjustment only includes a portion of the office salaries. This adjustment totals \$1,568 and it represents annualized salaries as of 9/30/05 without the annual merit salary increases. Office employees received salary increases as of 7/1/06 and the salary increase adjustment totals \$1,385, for a total salary adjustment of \$2,953. ORS has proposed no salary increase adjustment in office salaries on the basis that "supporting documentation was not received in sufficient time to allow for its audit." The external payroll documents were provided to the ORS at the earliest time possible and that change is known and measurable.

Q. IS THIS THE SAME ANNUAL REVIEW PROCESS THAT YOU PREVIOUSLY MENTIONED?

23 A. Yes.

Q. WOULD YOU PLEASE DISCUSS THE NEXT ORS ADJUSTMENT WITH WHICH YOU DISAGREE?

Yes, it is Adjustment Number 7 for Rate Case Expense. ORS's adjustment does not include the costs necessary to resolve this rate proceeding. There should be no argument that the Company has incurred or will incur additional costs to resolve this case. The Commission should allow these estimated costs to be included in the rate case expense, or in the alternative, allow the actual costs incurred through the hearing date to be included for ratemaking purposes as it has done in past proceedings. The expenses associated with the rate case are reasonable, necessary and recoverable expenses. Furthermore, these rate case costs are necessary to insure the Company can provide reliable utility service to its customers.

A.

A.

Q. WOULD YOU PLEASE DISCUSS THE NEXT ORS ADJUSTMENT WITH WHICH YOU DISAGREE?

I disagree with ORS Adjustment Number 6 regarding Pension and Other Benefits. ORS's adjustment only includes a portion of the total proposed pension and other benefits. Their adjustment totals \$(164) and does not include the annual merit salary increase for operators and office employees. The increase in pension and other benefits is due to the salary increases previously discussed. The increase to Pension and Other Benefits related to the annual merit salary increases for both operators and office employees' totals \$1,353, for a total pension and other benefits adjustment of \$1,189.

Q. WHAT IS THE NEXT ORS ADJUSTMENT YOU DISAGREE WITH?

A. It is ORS Adjustment Number 11 regarding Taxes Other Than Income. ORS's adjustment \$(1,193) only includes the payroll taxes for the operators' and office salaries without the impact of salary increase. The increase in payroll taxes due to the annual salary increase previously discussed. The additional increase in payroll tax adjustment is \$1,350, for a total taxes other than income expense amount of \$157.

Α.

Q. PLEASE DISCUSS THE NEXT ORS ADJUSTMENT WITH WHICH YOU DISAGREE.

I partially disagree with ORS Adjustment Number 30, which is to adjust operators' salaries to reflect the transfer of Gem Lakes by applying a ratio of .0262. I agree with the ratio computed by ORS, however, the amount of the adjustment should be (\$430) due to the increase in operators' salaries. Similar logic is applied to ORS Adjustment Numbers 31 (Operating Expenses Charged to Plant), 33 (Office Salaries), 34 (Pension and Other Benefits), 38 (Payroll Taxes), 39 (Utility/Commission Tax), 45 (Operating Expenses Charged to Plant related to Gross Plant in Service), 52 (Interest Expense), and 54 (Uncollectible Accounts) where I agree with the ratios calculated to remove items associated with the removal of Gem Lakes and Keowee Townhomes, however, since these are fall out items, the amounts will change due to the change in related expense accounts.

1	Q.	WHAT ARE THE LAST ORS ADJUSTMENTS WITH WHICH YOU HAVE A				
2		DISAGREEMENT?				
3	A.	That would be Staff Adjustment Numbers 22 and 47 dealing with Cash				
4		Working Capital. The Company and the ORS agree on the methodology to calculate				
5		cash working capital. However, the parties' basis, operation and maintenance				
6		expense, for calculating cash working capital differ.				
7						
8	Q.	HAVE YOU PREPARED AN EXHIBIT WHICH REFLECTS THE				
9		ADJUSTMENTS YOU DISCUSSED ABOVE?				
10	A.	Yes, I have attached this exhibit as LS Rebuttal Exhibit No. 1				
11						
12	Q.	HAVE YOU REVIEWED THE TESTIMONY AND EXHIBITS PRE-FILED BY				
13		MS. DAWN HIPP ON BEHALF OF ORS?				
14	A.	Yes, I have.				
15						
16	Q.	WHAT PORTIONS OF MS. HIPP'S TESTIMONY DO YOU INTEND TO				
17		ADDRESS?				
18	A.	I intend to address the portions of her testimony concerning the level of the				
19		Company's bond.				
20						
21	Q.	REGARDING THE COMPANY'S BOND, WHAT IS YOUR RESPONSE TO				
22		MS. HIPP'S TESTIMONY?				
23						

We will comply with the requirement to increase our bond for our water and 1 A. 2 sewer utility operations to a minimum of \$100,000 and \$350,000, respectively. However, it will cost the Company \$5,250 more annually to maintain these additional letters of credit. We believe an adjustment to our Miscellaneous Expenses in that 4 5 amount is known and measurable and we request that the Commission make such an 6 adjustment, if it adopts ORS' recommendation in this regard.

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DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY? Q.

9 A. Yes, it does.

United Utility Companies, Inc. Docket No. 2006-107-WS Index to Exhibits

LS Rebuttal Exhibit No. 1

<u>Line No.</u>	<u>Title</u>	Schedule No.
(1)	Rate base & net operating income water and sewer combined	1
(2)	Rate base & net operating incomewater operations	1-1
(3)	Rate base & net operating income sewer operations	1-2
(4)	Uncollectibles	2
(5)	Calculation of salary and benefits [Confidential - not attached]	3
(6)	Calculation of operating expense charged to plant	4
(7)	Calculation of taxes other than income	5
(8)	Calculation of income taxes	6
(9)	Capital structure	7
(11)	Rate Case Expense	8
(12)	Calculation of working capital	9
(13)	Calculation of proposed rates	10

		Per ORS		UUCI Pro Forma djustments			Total ro Forma Present		roposed ncrease			ro Forma Proposed
Operating Revenues												
Service Revenues - Water	\$	43,424	\$	-		\$	43,424	\$	21,986	\$;	65,410
Service Revenues - Sewer		728,520		-			728,520		135,470			863,990
Miscellaneous Revenues		27,819		-			27,819					27,819
Uncollectible Accounts		(11,580)		(22,045)	[n][r]		(33,625)		(18,929)	[r]		(52,554)
Total Operating Revenues	\$	788,183	\$	(22,045)		\$	766,138	\$	138,527	\$;	904,665
Operating Expenses												
Maintenance Expenses	\$	439,716	\$	10,427	[a][j][e][g]	\$	450,143			\$		450,143
General Expenses	•	127,308	*	17,709	[c][i][k][l][m][o]	Ψ	145,017			4	,	145,017
Depreciation		88,898		83	[s]		88,981					
Taxes Other Than Income		67,560		1,006	(h)[p][q]		68,566		1 770			88,981
Income Taxes - Federal		14,222		1,000	այլթյլգյ				1,772			70,338
Income Taxes - State		2,138		-			14,222		28,313			42,535
Amortization of PAA		2,136		-			2,138		4,258			6,396
Amortization of CIAC		(40.400)		-			-		-			-
Amortization of CIAC		(43,629)		-			(43,629)		-	_		(43,629)
Total Operating Expenses	- \$	696,213	\$	29,226		\$	725,439	\$	34,344	\$	<u> </u>	759,782
Total Operating Income	\$	91,970	\$	(51,271)		\$	40,699	\$	104,184	5	;	144,883
Growth adjustment		2,295		(1,223)			1,072	<u>~</u>	2,313		_	3,385
Interest During Construction							-		-			-
Net Income	\$	94,265	\$	(52,493)		\$	41,772	\$	106,496		}	148,268
Original Cost Rate Base:		Per ORS		Pro Forma djustments			As Adjusted		roposed ncrease	_		As Adjusted
Gross Plant In Service	\$	4,895,220	\$	5,550	[b][d]	\$	4,900,770	\$	_	9		4,900,770
Accumulated Depreciation		(391,965)		(83)	[c]	•	(392,048)	•	_	,	,	(392,048)
Net Plant In Service		4,503,255		5,467	1-7		4,508,722					4,508,722
Cash Working Capital		70,878		3,517	[a]		74,395					74,395
Contributions In Aid of Construction		(2,565,751)		-,	1-1		(2,565,751)					(2,565,751)
Accumulated Deferred Income Taxes		(258,077)		_			(258,077)					(258,077)
Customer Deposits		(32,553)					(32,553)					
Plant Acquisition Adjustment		(32,333)		_			(32,333)					(32,553)
Water Service Corporation		10,087		-			10.007					10.007
,		· · · · · · · · · · · · · · · · · · ·		-			10,087					10,087
Total Rate Base		1,727,839	\$	8,984		-	1,736,823	\$	-	- =	5	1,736,823
Return on Rate Base		5.46%					2.41%					8.54%
Operating Margin		3.64%					-3.15%			-		9.11%
Interest Expense		65,558					65,889			[f]		65,889
Return on Equity		4.06%					-3.40%					11.60%

Operating Revenues		Per ORS	Pro	UUCI o Forma ustments			o Forma Present		oposed ecrease		Pro Forma Proposed
Service Revenues - Water Service Revenues - Sewer Miscellaneous Revenues Uncollectible Accounts	\$	43,424 - 1,114 (651)	\$	(1,382)	[n][r]	\$	43,424 - 1,114 (2,032)	\$	21,986	\$	65,410
Total Operating Revenues	\$	43,887	\$	(1,382)	քույլո	\$	(2,033) 42,505	\$	(1,029) 20,957	1 ^r] \$	(3,062)
Operating Expenses Maintenance Expenses General Expenses Depreciation Taxes Other Than Income Income Taxes - Federal Income Taxes - State Amortization of PAA Amortization of CIAC Total Operating Expenses	\$	22,577 11,950 7,359 4,960 (1.699) (256) - (3,687) 41,204	\$	677 1,553 5 85 - - - 2,321	[a][j] [c][i][k][l] [s] [h]	\$	23,254 13,503 7,364 5,045 (1,699) (256) (3,687) 43,525	\$	247 5,647 850 - - - 6,744	\$	23,254 13,503 7,364 5,293 3,948 594 - (3,687) 50,269
Total Operating Income Customer Growth Adjustment Interest During Construction	\$	2,683	\$	(3,703)		\$	(1,020)	\$	14,213	\$	13,193
Net Income	\$	2,683	\$	(3,703)		\$	(1,020)	\$	14,213	\$	13,193
Original Cost Rate Base:		Per ORS		o Forma justments		A	As djusted		oposed ocrease	dictions	As Adjusted
Gross Plant In Service Accumulated Depreciation Net Plant In Service Cash Working Capital	\$ 	430,645 (48,939) 381,706 4,316	\$	360 (5) 354 279	[b] [c]	\$	431,005 (48,944) 382,060 4,595	\$	-	\$	431,005 (48,944) 382,060 4,595
Contributions In Aid of Construction Accumulated Deferred Income Taxes Customer Deposits Plant Acquisition Adjustment Water Service Corporation		(206,972) (23,787) (2,192) - 792		-			(206,972) (23,787) (2,192) - 792				(206,972) (23,787) (2,192) - 792
Total Rate Base		153,863	\$	633			154,496	\$	-		154,496
Return on Rate Base	_	1.74%					-0.66%				8.54%
Operating Margin		-7.19%					-16.19%				11.55%
Interest Expense		5,838					5,861			[f]	5,861
Return on Equity		-5.01%					-10.89%				11.60%

0		Per ORS	UUCI ro Forma djustments		ro Forma Present		roposed ncrease		Pro Forma Proposed
Operating Revenues Service Revenues - Water Service Revenues - Sewer Miscellaneous Revenues Uncollectible Accounts	\$	728,520 26,705 (10,929)	\$ (20,663)	[n][r]	\$ 728,520 26,705 (31,592)	\$	135,470 - (17,899)	\$ [r]_	863,990 26,705 (49,491)
Total Operating Revenues	\$	744,296	\$ (20,663)		\$ 723,633	\$	117,571		841,204
Operating Expenses Maintenance Expenses General Expenses Depreciation Taxes Other Than Income Income Taxes - Federal Income Taxes - State Amortization of PAA	\$	417,139 115,358 81,539 62,600 15,921 2,394	\$ 9,750 16,156 78 921	[a][j][e][g] [c][i][k][i][m][o] [s] [h][p][q]	\$ 426,889 131,514 81,617 63,521 15,921 2,394		1,524 22,667 3,409	\$	131,514 81,617 65,045 38,588 5,803
Amortization of CIAC		(39,942)	 		 (39,942)	•••	-		(39,942)
Total Operating Expenses	- \$	655,009	\$ 26,905		\$ 681,914	\$	27,600		709,513
Net Operating Income Growth Adjustment Interest During Construction		89,287 2,295	\$ (47,568)		\$ 41,719 1,072	\$	89,971 2,313		131,690 3,385
Net Income	\$	91,582	\$ (48,791)		\$ 42,791	\$	92,284		135,075
Original Cost Rate Base:		Per ORS	Pro Forma djustments		 As Adjusted		roposed ncrease		As Adjusted
Gross Plant In Service Accumulated Depreciation Net Plant In Service Cash Working Capital Contributions In Aid of Construction Accumulated Deferred Income Taxes Customer Deposits	\$	4,464,575 (343,026) 4,121,549 66,562 (2,358,779) (234,290) (30,361)	\$ 5,191 (78) 5,113 3,238	[b][d] c][e] [a]	\$ 4,469,766 (343,104) 4,126,662 69,800 (2,358,779) (234,290) (30,361)	\$	-		4,469,766 (343,104) 4,126,662 69,800 (2,358,779) (234,290) (30,361)
Plant Acquisition Adjustment Water Service Corporation		9,295			9,295				9,295
Total Rate Base		1,573,976	\$ 8,351		 1,582,327	\$	-		1,582,327
Return on Rate Base		5.82%			 2.70%			_	8.54%
Operating Margin		4.28%			-2.38%			_	8.92%
Interest Expense		59,720			60,028			[f]	60,028
Return on Equity		4.95%			-2.66%				11.60%

Explanation of Adjustments to Income Statement

- [a] Salary adjustment based on current salary increases as of 7/18/2006.
- [b] Intentionally left blank.
- [c] Salary adjustment based on current salary increases as of 7/18/2006.
- [d] Intentionally left blank.
- [e] Adjustment to remove .0262 of operating salaries adjustment [a] associated with Gem Lakes.
- [f] Interest on debt has been computed using a 59.1%/40.9% debt/equity ratio and a 6.42% cost of debt.
- [g] Adjustment to add .0262 of operating salaries charged to plant adjustment [j] associated with Gem Lakes.
- [h] Increase in payroll taxes based on increase in salaries.
- [i] Increase in benefits based on increase in salaries.
- [j] Increase in operating expenses charged to plant based on the increase in maintenance salaries.
- [k] The additional LOC will cost 1.5% of the additional \$350,000 [allocated between water & sewer].
- [I] Actual and estimated rate case expense amortized over 3 years.
- [m] Adjustment to remove .1477 of office salaries adjustment [c] associated with Gem Lakes.
- [n] Uncollectibles associated with the removal of Gem Lakes is calculated based on a 5.73% rate.
- [o] Adjustment to remove .0547 of pension and benefits adjustment [i] associated with Gem Lakes.
- [p] Adjustment to remove .0428 of payroll taxes adjustment [h] associated with Gem Lakes.
- [q] Adjustment to remove .1617 of utility/commission tax and gross receipts tax adjustment associated with Gem Lakes.
- [r] Uncollectibles are adjusted based on historical percentages of 4.68% for water and 5.73% for sewer.
- [s] 1.5% depreciation is calculated on the capitalized salaries.

Explanation of Adjustments to Rate Base and Rate of Return

- [a] Cash working capital is calculated based on 1/8 of maintenance and general expenses.
- [b] 30.12% of operators' salaries, taxes and benefits are capitalized to plant as a result of the adjustment due to salary increases.
- [c] 1.5% depreciation is calculated on the capitalized salaries.
- [d] Adjustment to remove .0262 of operating expense charged to plant adjustment [b] associated with Gem Lakes.
- [e] Adjustment to remove .0262 of depreciation calculated on the capitalized salaries adjustment [c] associated with Gem Lakes.

United Utility Companies, Inc. Docket No. 2006-107-WS Uncollectibles

Schedule 2

	Water	Sewer	<u>Total</u>		
Test Year	\$ 43,424	\$ 737,783	\$ 781,207		
Uncollectible Accounts	\$ 2,033	\$ 42,262	\$ 44,295		
Uncollectible %	4.68%	5.73%			
Proposed Revenues	\$ 65,410	\$ 863,990			
Uncollectible %	4.68%	5.73%			
Uncollectible Accounts	\$ 3,062	\$ 49,491	\$ 52,554		

Note: Methodology of calculating uncollectibles consists with the Commission's past practice.

United Utility Companies, Inc. Docket No. 2006-107-WS Calculation of operating expense charged to plant

Total Operating Expense Charged to Plant per Books Total Operating Expense charged to Plant (from Exhibit 3) * 30.12%	\$ (59,723) (67,545)		
Percentage of Pro Forma Salaries, Taxes, and Benefits to Charge to Plant	\$ (7,822)		
Total Operating Adjustment to Plant per ORS	\$ (2,122)		
Net rebuttal adjustment charged to Plant	\$ (5,700)	W \$ (360) [j]	\$ \$ (5,340) [j]

United Utility Companies, Inc. Docket No. 2006-107-WS Calculation of taxes other than income

	Water		 Sewer		Total
Pro Forma Adjustments					
Payroll Tax Increase	\$	85	\$ 1,265	\$	1,351
Adjustment	\$	85	\$ 1,265	\$	1,351
Proposed Increase Adjustments					
Revenue Increase	\$	21,986	\$ 135,470	\$	157,456
Utility/Commission Tax		0.83%	0.83%		0.83%
Gross Receipts Tax		0.30%	 0.30%		0.30%
Adjustment	\$	247	\$ 1,524	\$	1,772

<u>WATER</u>		o Forma roposed
State Income Taxes		
Total Revenue	\$	63,462
Maintenance Expense General Expense Depreciation & Amortization Taxes Other Than Income Interest Expense		23,254 13,503 3,677 5,293 5,861
Taxable Income State Tax Rate	\$	11,873 5.0%
Total State Income Taxes	\$	594
Federal Taxes		
Taxable Income before taxes	\$	11,873
Less: State 1/T		594
Federal Taxable Income Federal Tax Rate		11,280 35%
Total Federal Taxes		3,948
SEWER		o Forma
SEWER State Income Taxes		o Forma roposed
State Income Taxes	<u>P</u>	roposed
State Income Taxes Total Revenue Maintenance Expense General Expense Depreciation & Amortization Taxes Other Than Income	<u>P</u>	841,204 426,889 131,514 41,675 65,045
State Income Taxes Total Revenue Maintenance Expense General Expense Depreciation & Amortization Taxes Other Than Income Interest Expense Taxable Income	\$	841,204 426,889 131,514 41,675 65,045 60,028 116,053
State Income Taxes Total Revenue Maintenance Expense General Expense Depreciation & Amortization Taxes Other Than Income Interest Expense Taxable Income State Tax Rate	\$	841,204 426,889 131,514 41,675 65,045 60,028 116,053 5.0%
State Income Taxes Total Revenue Maintenance Expense General Expense Depreciation & Amortization Taxes Other Than Income Interest Expense Taxable Income State Tax Rate Total State Income Taxes	\$	841,204 426,889 131,514 41,675 65,045 60,028 116,053 5.0%
State Income Taxes Total Revenue Maintenance Expense General Expense Depreciation & Amortization Taxes Other Than Income Interest Expense Taxable Income State Tax Rate Total State Income Taxes Federal Taxes	\$ \$	426,889 131,514 41,675 65,045 60,028 116,053 5.0% 5,803
State Income Taxes Total Revenue Maintenance Expense General Expense Depreciation & Amortization Taxes Other Than Income Interest Expense Taxable Income State Tax Rate Total State Income Taxes Federal Taxes Taxable Income before taxes	\$ \$	426,889 131,514 41,675 65,045 60,028 116,053 5,803

United Utility Companies, Inc. Capital structure

	Capital structure				
					Schedule 7
		September, 30 2005		Annual Interest Expense	Capital Structure
COMMON SHAREHOLDERS' EQUITY: Common shares, \$.10 par value; authorized and issued 1,000 shares, respectively 0 shares reserved for stock options, respectively Paid-in capital Retained earnings (\$42,152,239 restricted at December 31, 2003) Note receivable from parent Other Comprehensive Income		\$ 100 24,261,656 73,467,650 (2,650,000) (427,551)		женьс	Suuciuic
Total Common Shareholder's Equity		\$ 94,651,855			40.90%
LONG-TERM DEBT: Collateral trust notes - 5.41%, \$7,142,857 due in annual installments beginning in 2006 through 2012 9.16%, \$1,000,000 due in annual installments through 2006 9.01%, \$1,500,000 due in annual installments through 2007 8.42%, \$5,857,143 due in annual installments beginning in 2009 through 2015		\$ 50,000,000 1,000,000 4,500,000 41,000,000		2,705,000 91,600 405,450 3,452,200	
4.55%, \$4,000,000 due in annual installments beginning in 2008 through 2012 4.62%, \$4,000,000 due in annual installments beginning in 2008 through 2012		20,000,000		910,000 924,000	
Other long-term debt - 8.10% to 8.96% promissory notes payable to bank due in monthly installments through 2017 Amortization of Debt and Acquisition Expense		289,858		25,000 266,781	
Total Long-Term Debt		\$ 136,789,858	\$_	8,780,031	59.10%
TOTAL CAPITALIZATION COST OF DEBT		\$ 231,441,713			100.00%
	Long-Term Debt Common Equity	Ratio 59.10% 40.90% 100.00%		Cost 6.42% 11.60%	Weighted Cost 3.79% 4.74% 8.54%
Pro Forma Interest Expense					
		Water		Sewer	Total
Pro Forma Present Rate Base		154,496		1,582,327	1,736,823
Debt Ratio		59.10%		59.10%	59.10%
Embedded Cost of Debt		6.42%		6.42%	6.42%
Pro Forma Interest Expense		5,861		60,028	65,889

United Utility Companies, Inc. Docket No. 2006-107-WS Rate Case Expense

	Total		
Total Cost of current case to date Management Audit Estimated expense to be incurred including hearing	\$ 79,008 5,920 30,000		
Total	114,928		
Amortized over 3 years	3		
Amortization Expense per year	\$ 38,309		
Yearly rate case expense allowed by ORS	\$ (28,309)	1 47 •	6
Total Adjustment	\$ 10,000	Water \$ 631	Sewer \$ 9,369

United Utility Companies, Inc. Docket No. 2006-107-WS Calculation of working capital

		 Water
Pro Forma Present		
Maintenance Expenses		\$ 23,254
General Expenses		 13,503
Total		\$ 36,757
Working Capital	45/360	\$ 4,595
		 Sewer
Pro Forma Present		
Maintenance Expenses		\$ 426,889
General Expenses		131,514
Total		\$ 558,403
Working Capital	45/360	\$ 69,800

United Utility Companies, Inc. Docket No. 2006-107-WS **Calculation of Proposed Rates**

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Bill code	Description	Usage Gallonage Charge		Units	Units BFC		Revenues		
70001	5/8" Residential Distribution	1,705,100	\$	6.82	289	\$	17.05	\$	16,564
70001	5/8" Residential Distribution	1,404,278		6.82	244		17.05		13,743
70002	5/8" Residential Distribution	41,090		6.82	5		17.05		366
70001	5/8" Residential Distribution	3,492,710		6.82	590		17.05		33,895
70002	5/8" Residential Distribution	98,400		6.82	10		17.05		842
	Total	6,741,578			1,138			\$	65,410
SEWER									

Bill code	Description	Gallonage	Usage Charge	Units	Rate	Revenues
70021	5/8" Residential	-	-	600	\$ 56.42	33,855
70028	3/4" Residential	~	-	24	56.42	1,354
70021	5/8" Residential	-	~	1,103	56.42	62,236
70021	5/8" Residential	-	-	1682	56.42	94,906
70022	5/8" Residential - Mobile Home			1687	41.69	70,323
70021	5/8" Residential			1068	56.42	60,262
70021	5/8" Residential			1493	56.42	84,242
70022	5/8" Residential - Mobile Home			293	41.69	12,214
70021	5/8" Residential			3302	56.42	186,314
70021	5/8" Residential			1100	56.42	62,067
70021	5/8" Residential			144	56.42	8,125
70024	Sewage Collection Charge			923	28.98	26,746
70024	Sewage Collection Charge			2430	28.98	70,415
72321	Sewage Collection Charge			3138	28.98	90,931
	Total	-		18,987		\$ 863,990